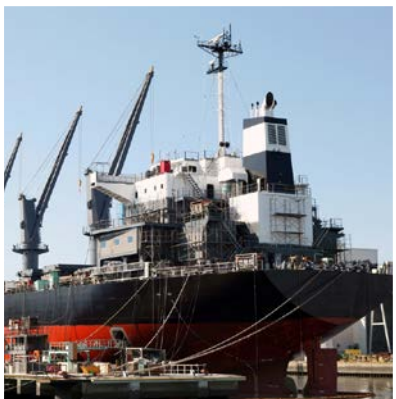
SKF Cooper split roller bearings and bearing units



SKF is the leading supplier of split roller bearings, providing quality and long lasting products since 1907.

SKF designs and manufactures split bearings and split bearing housings using the latest in cellular, flexible techniques and machinery.

Specialised sales and engineering support is available from our local SKF teams all over the world. Together with the local support and assistance of a global network of authorised distributors, our customers worldwide receive “First In Class” service and attention.

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Contents

Unit conversions

Quantity	Unit	Conversion			
Length	inch	1 mm	0.03937 in	1 in	25,4 mm
	foot	1 m	3.281 ft	1 ft	0,3048 m
	yard	1 m	1.094 yd	1 yd	0,9144 m
	mile	1 km	0.6214 mi	1 mi	1,609 km
Area	square inch	1 mm^2	0.00155 in^2	1 in^2	645,16 mm^2
	square foot	1 m^2	10.76 ft^2	1 ft^2	0,0929 m^2
Volume	cubic inch	1 cm^3	0.061 in^3	1 in^3	16,387 cm^3
	cubic foot	1 m^3	35 ft^3	1 ft^3	0,02832 m^3
	imperial gallon	1 l	0.22 gallon	1 gallon	4,5461 l
	US gallon	1 l	0.2642 US gallon	1 US gallon	3,7854 l
Speed, velocity	foot per second	1 m/s	3.28 ft/s	1 ft/s	0,3048 m/s
	mile per hour	1 km/h	0.6214 mph	1 mph	1,609 km/h
Mass	ounce	1 g	0.03527 oz	1 oz	28,35 g
	pound	1 kg	2.205 lb	1 lb	0,45359 kg
	short ton	1 tonne	1.1023 short ton	1 short ton	0,90719 tonne
	long ton	1 tonne	0.9842 long ton	1 long ton	1,0161 tonne
Density	pound per cubic inch	1 g/cm^3	0.0361 lb/in^3	1 lb/in^3	27,68 g/cm^3
Force	pound-force	1 N	0.225 lbf	1 lbf	4,4482 N
Pressure, stress	pounds per square inch	1 MPa	145 psi	1 psi	6,8948 × 10^3 Pa
		1 N/mm^2	145 psi		
		1 bar	14.5 psi	1 psi	0,068948 bar
Moment	pound-force inch	1 Nm	8.85 lbf-in	1 lbf-in	0,113 Nm
Power	foot-pound per second	1 W	0.7376 ft-lb/s	1 ft-lb/s	1,3558 W
	horsepower	1 kW	1.36 hp	1 hp	0,736 kW
Temperature	degree	Celsius	$t_C = 0.555\ (t_F - 32)$	Fahrenheit	$t_F = 1{,}8\ t_C + 32$

1 Overview, selection and application recommendations

Bearing types

- SKF manufactures different types of split bearings. Information about split cylindrical roller bearings (**page 70**) and split tapered roller bearings (**page 102**) can be found in this publication. See (**fig. 1**) for example pictures of standard assortment of split cylindrical roller bearings and split tapered roller bearings. Information about split spherical roller bearings can be found in another publication: PUB 73/P2 18333 EN.
- For interest in other product types, please contact SKF.

Housing types

SKF Cooper split roller bearings can be mounted in various housings:

- plummer (pillow) block housings:
  - with a two-bolt base (**fig. 2**)
  - with a four-bolt base (**fig. 3**)
  - interchangeable with SN housings
  - interchangeable with SD housings
  - interchangeable with SAF housings (**fig. 4**)
  - angled design, interchangeable with SN housings
  - angled design, interchangeable with SD housings
  - angled design, interchangeable with SAF housings
- flanged housings:
  - round (**fig. 5**)
  - square (**fig. 6**)
- hanger housings:
  - single boss (**fig. 7**)
  - double boss (**fig. 8**)
  - triple boss (**fig. 9**)
- take-up housings:
  - tension type (**fig. 10**)
  - push type (**fig. 11**)
- rod end housings:
  - "T" type (**fig. 12**)
  - shoe type (**fig. 13**)

Materials

The various components of SKF Cooper split roller bearing units are made of the following materials, as standard:

- bearing rings and rollers: high carbon chromium bearing steel
- bearing cages:
  - Split cylindrical roller bearings: **table 2**, **page 71**
  - Split tapered roller bearings: brass
- clamping rings: low or medium carbon steel
- cartridges: grey iron
- housings: grey iron or ductile iron
- screws: high tensile steel

Alternative materials are also available. Additional information is provided under *Designations* on **page 186**.

Fig. 1

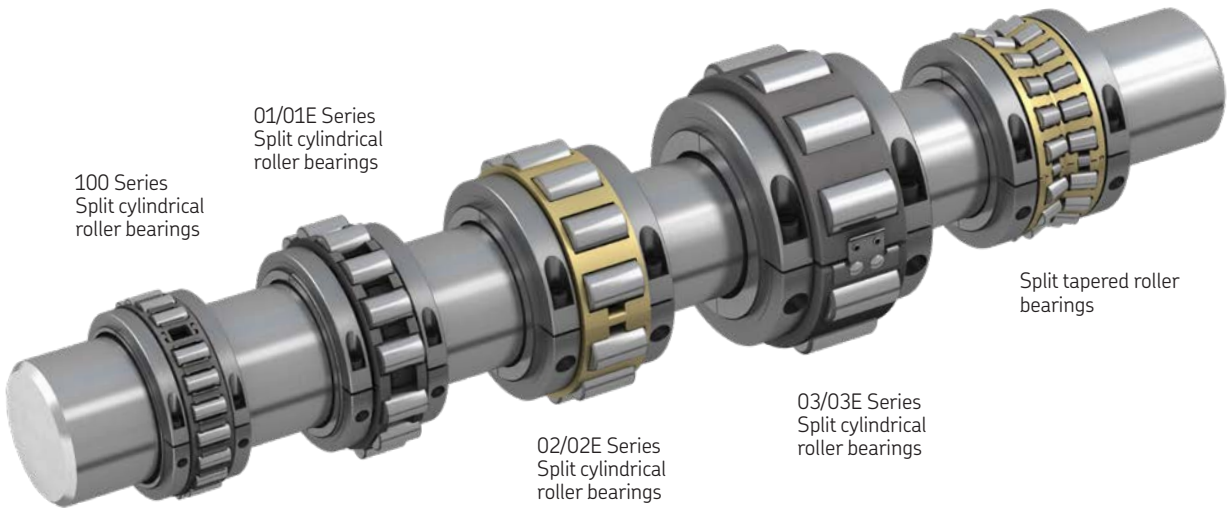


Fig. 2

Plummer block housing with a two-bolt base

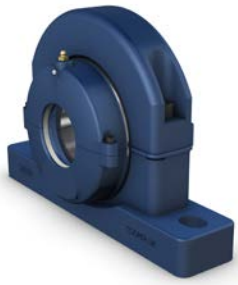


Fig. 3

Plummer block housing with a four-bolt base

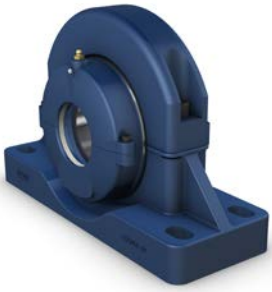


Fig. 4

Plummer block housing, interchangeable with SAF housing

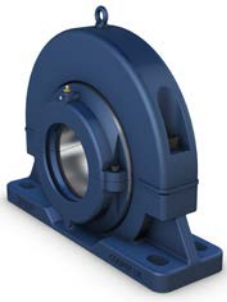


Fig. 5

Flanged housing (round flange)

Fig. 6

Flanged housing (square flange)

Fig. 7

Hanger housing (single boss)

Fig. 8

Hanger housing (double boss)

Fig. 9

Hanger housing (triple boss)

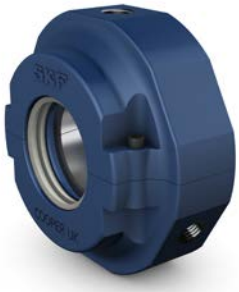


Fig. 10

Take-up housing (tension type)

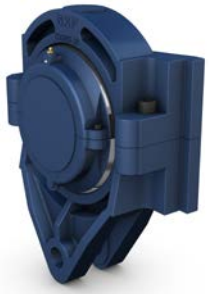


Fig. 11

Take-up housing (push type)

Fig. 12

Rod end housing (“T” type)

Fig. 13

Rod end housing (shoe type)

Bearing size

Size selection based on rating life

Bearing life is defined as the number of revolutions (or the number of operating hours) at a given speed that the bearing is capable of enduring before the first sign of metal fatigue (spalling) occurs on a rolling element or the raceway of the inner or outer ring.

Tests on seemingly identical bearings, under identical operating conditions, result in a large variation in the number of cycles, or time, needed to cause metal fatigue. Therefore, bearing life estimates based on rolling contact fatigue (RCF) are insufficiently accurate and so a statistical approach is needed to determine bearing size.

The basic rating life, L_{10}, is the fatigue life that 90% of a sufficiently large group of apparently identical bearings, operating under identical operating conditions, can be expected to attain or exceed.

To determine a relevant bearing size using the definition given here, compare the calculated rating life against the service life expectations of the bearing application, using experience from previous dimensioning where available. Otherwise, use the guidelines regarding specification life of various bearing applications provided in **table 1**.

Basic rating life

If you consider only the load and speed, you can use the basic rating life, L_{10}. The basic rating life of a bearing according to ISO 281 is

$$L_{10} = \left(\frac{C}{P}\right)^p$$

If the speed is constant, it is often preferable to calculate the life expressed in operating hours using

$$L_{10h} = \frac{10^6}{60\,n} L_{10}$$

where

L_{10} = basic rating life (at 90% reliability) [millions of revolutions]
L_{10h} = basic rating life (at 90% reliability) [millions of hours]
C = basic dynamic load rating [kN]
P = equivalent dynamic bearing load [kN]
n = rotational speed [r/min]
p = exponent of the life equation
= 10/3 for roller bearings

Life adjustment factor

For modern high-quality bearings, the calculated basic rating life can deviate significantly from the actual service life in a given application. Service life in a particular application depends not only on load and bearing size, but also on a variety of influencing factors including lubrication, degree of contamination, proper mounting and other environmental conditions.

ISO 281 uses a modified life factor to supplement the basic rating life

$$L_{nm} = a_1 L_{10} = a_1 \left(\frac{C}{P}\right)^p$$

If the speed is constant, the life can be expressed in operating hours, using the equation

$$L_{nmh} = \left(\frac{10^6}{60\,n}\right) L_{nm}$$

where

L_{nm} = Rating life (at 100 – n[1])% reliability) [millions of revolutions]
L_{nmh} = Rating life (at 100 – n[1])% reliability) [operating hours]
L_{10} = basic rating life (at 90% reliability) [millions of revolutions]
a_1 = life adjustment factor for reliability (**table 2**, values in accordance with ISO 281)
C = basic dynamic load rating [kN]
P = equivalent dynamic bearing load [kN]
n = rotational speed [r/min]
p = exponent of the life equation
= 10/3 for roller bearings

1) The factor n represents the failure probability, which is the difference between the requisite reliability and 100%.

Since the life adjustment factor a_1 is related to fatigue, it is less relevant for load levels, P, below the fatigue load limit P_u. Dimensioning with life adjustment factors reflecting very high reliability (such as 99%) will result in large bearings for given loads. In such cases, the bearing load must be checked against the minimum load requirement for the bearing. See also *Requisite minimum load* (**page 13**).

Table 1

Guideline values of specification life

Type of operation	Specification life
	Operating hours
Operation for use 8 hours a day	20 000 ... 50 000
Continuous operation main drives, large electrical machinery, flywheels, mining	70 000 ... 100 000
Continuous operation and an exceptionally high degree of reliability	100 000 ... 200 000

Life calculation with multiple load conditions

Where varying loads are experienced in operation, using the maximum load condition may lead to an unrealistically low calculated life. For n load conditions constituting the full load cycle (at constant speed), an overall dynamic equivalent load may be calculated as follows:

$$P = \left[\sum_{i=i}^{i=n} P_i^{(10/3)} p_i \right]^{0,3}$$

where
P_i = dynamic equivalent load under load condition i
p_i = proportion of time load condition i is applicable

Where the load is continuously variable, it may be broken down into a discrete approximation to the actual load cycle.

Equivalent dynamic bearing load, P

When calculating the bearing rating life, a value for equivalent dynamic bearing load is required for the bearing life equations.

The loads acting on a bearing are calculated according to the laws of mechanics using the external forces – such as forces from power transmission, work forces, gravitational or inertial forces – that are known or can be calculated.

In real-world circumstances, the loads acting on a bearing may not be constant, can act both radially and axially, and are subject to other factors that require the load calculations to be modified or, in some cases, simplified.

Calculating equivalent dynamic bearing load

The load value, P, used in the bearing rating life equations is the equivalent dynamic bearing load and is defined as: a hypothetical load, constant in magnitude and direction, that acts radially on radial bearings and axially and centrically on thrust bearings.

This hypothetical load, when applied, would have the same influence on bearing life as the actual loads to which the bearing is subjected.

Table 2

Life adjustment factor

Reliability	Failure probability	SKF rating life	Factor
	n	L_{nm}	a_1
%	%	million revolutions	–
90	10	L_{10m}	1
95	5	L_{5m}	0,64
96	4	L_{4m}	0,55
97	3	L_{3m}	0,47
98	2	L_{2m}	0,37
99	1	L_{1m}	0,25

If a bearing is loaded with simultaneously acting radial load F_r and axial load F_a that are constant in magnitude and direction, the equivalent dynamic bearing load P can be obtained from the general equation

$$P = X F_r + Y F_a$$

where
P = equivalent dynamic bearing load [kN]
F_r = actual radial bearing load [kN]
F_a = actual axial bearing load [kN]
X = radial load factor for the bearing
Y = axial load factor for the bearing

An axial load only influences the equivalent dynamic load P for a single row radial bearing if the ratio Fa/Fr exceeds a certain limiting factor, often expressed as e. With double row bearings, even light axial loads influence the equivalent load and have to be considered.

Please see details for each bearing type under *Loads* (**page 72** for split cylindrical roller bearings and **page 103** for split tapered roller bearings).

Size selection based on static load

When any of the following conditions exist, bearing size should be selected or verified based on the static load that the bearing can accommodate, taking into account the possible effects of permanent deformation:

- The bearing is not rotating and is subjected to continuous high load or intermittent peak loads.
- The bearing makes slow oscillating movements under load.
- The bearing rotates and, in addition to the normal fatigue life dimensioning operating loads, has to sustain temporary high peak loads.
- The bearing rotates under load at low speed (n < 10 r/min) and is required to have only a limited life. In such a case, the rating life equations, for a given equivalent load P, would give such a low requisite basic dynamic load rating C, that a bearing selected on a fatigue life basis would be seriously overloaded in service.

In such conditions, the resulting deformation can include flattened areas on the rolling elements or indentations in the raceways. The indentations may be irregularly spaced around the raceway, or evenly spaced at positions corresponding to the spacing of the rolling elements. A stationary or slowly oscillating bearing supporting a load great enough to cause permanent deformation will generate high levels of vibration and friction when subjected to continuous rotation. It is also possible that the internal clearance will increase or the character of the housing and shaft fits may be affected.

Static load rating

The basic static load rating C_0 is defined in ISO 76 as the load that results in a certain value of contact stress at the centre of contact of the most heavily loaded rolling element/raceway. For roller bearings, the contact stress value is 4 000 MPa *(580 000 psi)*.

These stress values produce a total permanent deformation of the rolling element and raceway that is approximately 0,0001 of the rolling element diameter. The loads are purely radial for radial bearings and axial, centrically acting, for thrust bearings.

Equivalent static load

Loads comprising radial and axial components that are to be evaluated in relation to the static load rating C_0, must be converted into an equivalent static bearing load. This is defined as that hypothetical load (radial for a radial bearing and axial for a thrust bearing) which, when applied, would cause the same maximum rolling element load in the bearing as the actual loads to which the bearing is subjected. It is obtained from the general equation

$$P = X_0 F_r + Y_0 F_a$$

where
P_0 = equivalent static bearing load [kN]
F_r = actual radial bearing load [kN]
F_a = actual axial bearing load [kN]
X_0 = radial load factor for the bearing
Y_0 = axial load factor for the bearing

In the equation, use radial and axial component values for the maximum load that can occur. If the load varies then consider the combination that induces the highest value of P_0.

Additional information under *Loads* (**page 72** for split cylindrical roller bearings and **page 103** for split tapered roller bearings).

Static safety factor

The static safety factor s_0 is given by

$$s_0 = C_0/P_0$$

where
s_0 = static safety factor
C_0 = required basic static load rating [kN]
P_0 = equivalent static bearing load [kN]

Alternatively, you can calculate the required basic static load rating, C_0.

Guideline values for the static safety factor s_0, based on experience, are listed in **table 3**. The s_0 values given for continuous motion relate to the influence of permanent deformation on bearing performance – ranging from noticeable friction peaks, vibrations and reduced fatigue resistance (for the lowest s_0 values), to no influence on friction, vibration or fatigue life (for the highest s_0 values). The certainty of load level reflects how well the actual bearing load is known and/or can be predicted.

To calculate the static load carrying capacity of the double bearing, multiply the basic static load rating (C_0) of the single bearing by 2.

Table 3

Guideline values for the static safety factor s_0

Reliability	**Continuous motion** Permanent deformation acceptance			**Infrequent motion** Permanent deformation acceptance
Certainty of load level	Yes	Some	No	Yes
High certainty For example, gravity loading and no vibrations	1	1,5	3	0,8
Low certainty For example, peak loading	≥ 2,5	≥ 3	≥ 4	≥ 2

Size selection based on axial load for split cylindrical bearings

Selecting a bearing based on the axial load is considered independently from the radial load. With the speed and desired shaft size known, the axial load rating can be calculated from

$C_a > f_{da}\, f_{dn}\, P_a / f_b$

where
C_a = axial load [kN]
f_{da} = dynamic or service factor
= 1, for peak overload periods
= 1,1 to 1, 2, for general running
f_{dn} = factor for axial load (**diagram 1**)
f_b = bearing factor
P_a = equivalent axial load [kN]

Value for bearing factor f_b depends on bearing series and calculated values for f_{dn} accordingly:

- For 01/01E, 02 and 03 series where $0,25 \leq dn\ [mm] / 1000 < 63$, $f_b = 1$
- For 01/01E, 02 and 03 series where $63 \leq dn\ [mm] / 1000 \leq 300$, $f_b = 1,25$
- For 100 series where $0,25 \leq dn\ [mm] / 1000 < 240$, $f_b = 1$
- For 100 series with $f_{dn} < 240$ please contact SKF

Retaining rings or recessed journals are required when:

- $P_a > 0,2\ C_a$, for 100 series split cylindrical roller bearings
- $P_a > 0,25\ C_a$, for 01E and 02E series split cylindrical roller bearings
- $P_a > 0,5\ C_a$, for 01, 02, and 03 series split cylindrical roller bearings

For additional information about retaining rings and recessed shafts, see *Axial location of bearings* on **page 15**.

If the axial load exceeds 40% of the radial load, contact SKF.

The axial load carrying capacity is decreased by 50% if the lubricant does not have EP (extreme pressure) additives.

Load carrying capacity of bearing in pairs

The split tapered roller bearings are all supplied as double row bearings and the capacities quoted in this publication are for double row bearings.

For design and mounting of other bearing pairs, please contact SKF for more information and support.

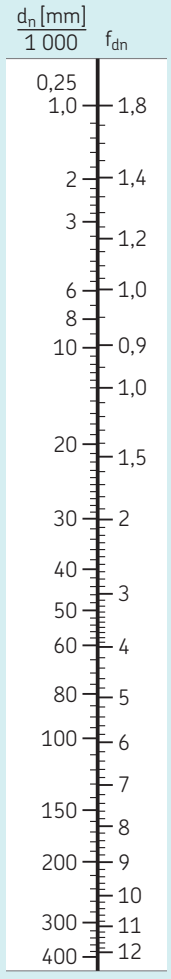
Requisite minimum load

In applications where the bearing size is determined by factors other than load – for example, shaft diameter constrained by critical speed – the bearing may be lightly loaded in relation to its size and carrying capacity. Where there are very light loads, failure mechanisms other than fatigue, such as skidding and smearing of raceways or cage damage, often prevail.

In order to provide satisfactory operation, SKF Cooper split roller bearings must always be subjected to a given minimum load. Additional information under *Loads* (**page 72** for split cylindrical roller bearings and **page 103** for split tapered roller bearings).

Diagram 1

Factor for axial load



[1] Speed factor d_n = bearing bore [mm] x rotational speed [r/min]

Design considerations

Specifications for shafts and housing support surfaces

Shaft bearing seat

SKF recommends the following shaft diameter tolerance classes (**table 4**) for the bearing seat for:

- split cylindrical roller bearings:
  - h7Ⓔ, for typical applications
  - h6Ⓔ, for dn[1] > 150 000 mm/min
  - h6Ⓔ, for bearings with C2 clearance
  - h9Ⓔ, for light loads and low speeds
- split tapered roller bearings:
  - h6Ⓔ, for all applications

The geometrical tolerance of the shaft should be to IT6. The surface roughness Ra of the bearing seat should be:

- < 3,2 µm, for an h7Ⓔ tolerance class
- < 1,6 µm for an h6Ⓔ tolerance class

Seal seat or counterface

If a stepped shaft is used:

- the dimensional tolerance of the shaft under the seals should be h9Ⓔ
- the cylindricity should be to at least IT6

Housing support surface

- flatness: tolerance grade IT7 in accordance with ISO 1101
- surface roughness Ra: ≤ 12, 5 µm

[1] Speed factor dn [mm/min] = bearing bore [mm] x rotational speed [r/min]

Table 4

Shaft tolerances and resultant fits

Shaft Nominal diameter d_a		Shaft diameter deviations, resultant fits Tolerance classes[1]						
		h6		h7		h9		IT6
>	≤							
mm		µm						
–	**50**	0	–16	0	–25	0	–62	16
50	**80**	0	–19	0	–30	0	–74	19
80	**120**	0	–22	0	–35	0	–87	22
120	**180**	0	–25	0	–40	0	–100	25
180	**250**	0	–29	0	–46	0	–115	29
250	**315**	0	–32	0	–52	0	–130	32
315	**400**	0	–36	0	–57	0	–140	36
400	**500**	0	–40	0	–63	0	–155	40
500	**630**	0	–44	0	–70	0	–175	44

[1] The envelope requirement (Ⓔ from ISO 14405-1) is not shown but applies to all tolerance classes.

Axial location of bearings

Cylindrical roller bearings are normally mounted without any axial locating methods. See below conditions for possible exceptions.

Recess mounting

For locating split cylindrical roller bearings (designation suffix GR), a shaft recess (**table 5**) is required if:

- the axial load exceeds 0,2 C_a for 100 series bearings
- the axial load exceeds 0,25 C_a for 01E and 02E series bearings
- the axial load exceeds 0,5 C_a for 01, 02, and 03 series bearings
- there is a combination of axial loading and one or more of the following:
  - impact loads
  - vertical shaft
  - fluctuating temperatures over 100 °C (*210 °F*).

The maximum shaft fillet radius (r) may vary according to bearing series. If larger shaft fillet radii are required, SKF can supply bearings with extra large chamfers on the inner ring bore.

The tolerance on the width of the recess is provided in **table 6**.

NOTE: Recess mounting requires a special cartridge and special seals to accommodate the larger shaft diameters. For some sizes, a modified inner ring is also required to allow the ring halves to be assembled onto the shaft in a truly radial direction.

With standard rings, it is sometimes necessary to incline the ring half slightly to the shaft axis in order to get it into position, but this is prevented by the walls of the recess.

When recess mounting is required for split cylindrical or tapered roller bearings, contact SKF for advice on the required modifications and part designations.

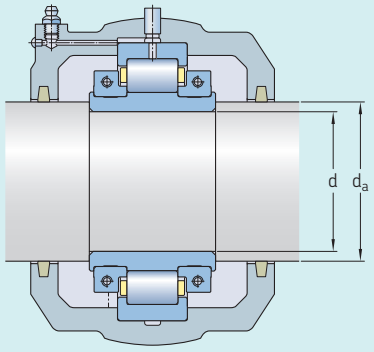
Spiral rings

Another way to axially support the inner ring could be to utilize spiral rings.

Please contact SKF for more information and support.

Table 5

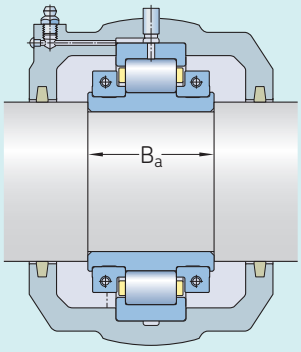
Shaft recess abutment dimensions



Bearing bore Nominal diameter d >	 ≤	Abutment diameter d_a
mm/*in.*		mm/*in.*
–	**90**	d + 5
–	***3 1/2***	*d + 3/16*
90	**155**	d + 10
3 1/2	**6**	*d + 3/8*
155	**–**	d + 10
6	**–**	*d + 3/8*

Table 6

Shaft tolerances on recess width and spacing between retaining rings



Width Nominal diameter B_a >	 ≤	Tolerance class D11	
mm		µm	
–	**50**	+80	+240
50	**80**	+100	+290
80	**120**	+120	+340
120	**180**	+145	+395
180	**250**	+170	+460
250	**315**	+190	+510
315	**400**	+210	+570

Sealing

The purpose of a seal is to retain lubricant and prevent any contaminants from entering a controlled environment.

Seal selection criteria

Seals for bearing applications should provide maximum protection with a minimum amount of friction and wear, under the prevailing operating conditions. Because bearing performance and service life are so closely tied to the effectiveness and cleanliness of the lubricant, the seal is a key component.

Many factors must be considered when selecting the most suitable seal for a particular bearing-shaft-housing system. These include:

- the contaminant type: particles or fluid or both
- the circumferential speed at the seal lip
- the shaft arrangement: horizontal or vertical
- available space
- seal friction and the resulting temperature increase
- environmental influences
- cost

Seal types

SKF offers a variety of sealing solutions for split roller bearing units (**table 7**, **page 17**).

Custom seals and seals of non-standard materials are also available on request.

Aluminium triple labyrinth seals

Aluminium triple labyrinth seals have O-rings which compress against the shaft and cause the seal to rotate with the shaft (**fig. 15**). The amount of compression is designed so that the shaft moves through the seal when axial expansion occurs in non-locating bearings.

Alignment feature

The cartridges in split bearing units have a spherical outer surface that fits into a conforming surface in the housing in the form of a ball and socket joint. If any shaft misalignment is present, the cartridge, seals, and bearing stay together, maintaining the seals on an axis parallel to the shaft (**fig. 16**).

Without this feature, contact between the seal and the shaft is lost on one side when even small amounts of misalignment occur, and sometimes a gap may open. On the other side, the seal presses heavily against the shaft and wears quickly. As a result, the sealing effectiveness is compromised.

With up to 2,5° permissible misalignment of the housings, extremely close tolerances can be maintained between the housing and the shaft resulting in an effective sealing element.

Fig. 15

Labyrinth seals

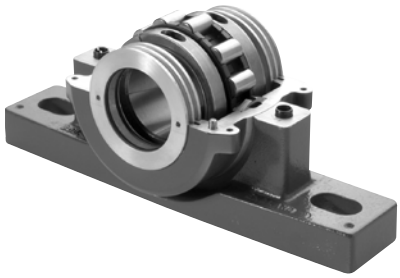


Fig. 16

Alignment feature

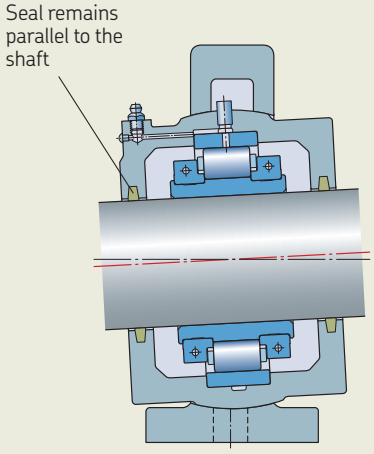
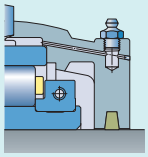
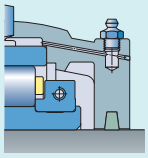
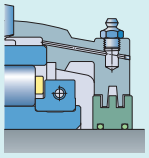
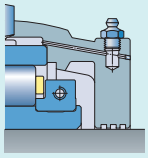
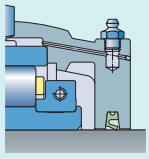
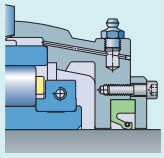


Table 7

Sealing solutions for cartridges

Seal						
Type	Felt (F)	High temperature packing (HTP)	Aluminium triple labyrinth (ATL)	Grease groove (LAB)	Synthetic rubber single lip (SRS)	Spring loaded single lip with retaining plate (SRSRP)
Variants	–	–	High temp. (ATL HT)	–	High temp. (SRS HT)	High pressure (SRSRP 40M)
Material	felt	graphite impregnated PTFE yarn	aluminium O-rings: • ATL: NBR • ATL HT: fluoro carbon	–	SRS: neoprene or NBR SRS HT: fluorinated NBR	neoprene or NBR
Range and availability						
Split cylindrical roller bearings						
US and Canada	available on request	available on request	standard for all sizes	available on request	available on request	available on request
Countries other than US and Canada	standard for $d_a \leq 300$ mm or 12 in. available on request for larger sizes	available on request	available on request	standard for $d_a > 300$ mm or 12 in. available on request for smaller sizes	available on request	available on request
Split tapered roller bearings						
All regions	available on request	available on request	available on request	standard for all sizes	available on request	available on request
Application conditions						
Temperature [°C]	–70 to +100	–70 to +260	ATL: –20 to +100 ATL HT: –20 to +200	Bearing maximum temp. limit	SRS: –20 to +100 SRS HT: –20 to +200	–20 to +100
Temperature [°F]	–95 to +210	–95 to +500	ATL: –5 to +210 ATL HT: –5 to +390	Bearing maximum temp. limit	SRS: –5 to +210 SRS HT: –5 to +390	–5 to +210
Max. rotational speed [dn[1)]]	150 000	150 000	not limited	not limited	150 000	150 000
Shaft roughness Ra [µm]	≤ 1,6	≤ 0,8	≤ 3,2	≤ 3,2	≤ 0,8	≤ 0,4
Sealing suitability						
Dust	–	–	–	– –	+	++
Fine particles	–	–	+	– –	+	++
Coarse particles	+	+	+	+	+	++
Chips	+	+	++	+	+	++
Liquids when sprayed	–	–	– –	– –	+	+
Direct sunlight	– –	– –	++	++	+	+
Applications						
	general applications	general applications	general applications, high speeds	high or slow speeds, marine applications	wet but not submerged conditions, improved lubricant retention with lip mounted inwards	severe splash or completely submerged conditions: ≤ 2 m of water (standard) ≤ 40 m of water (high pressure)

Symbols: ++ very suitable, + suitable, – limited suitability, – – unsuitable

1) Speed factor dn [mm/min] = bearing bore [mm] x rotational speed [r/min]

Bulkhead sealing

By combining a bearing and various sealing features into one unit, the SKF Cooper bulkhead sealed bearing unit can:

- offer an economical solution
- reduce the number of individual units required
- prevent problems with shaft eccentricity sometimes encountered at the bulkhead seal when it is separated from the bearing

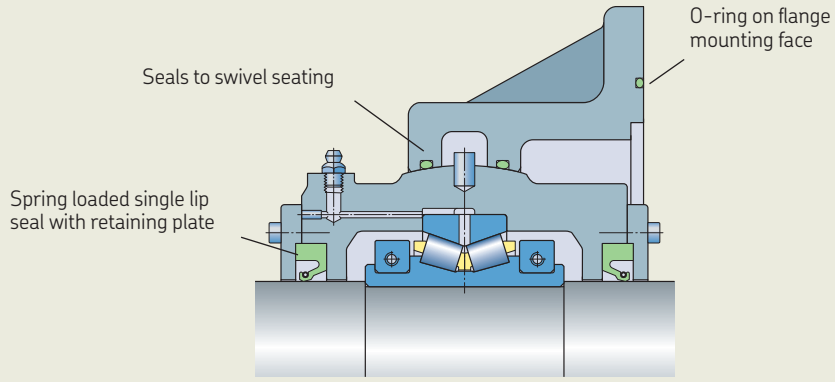
Often, a specially adapted flanged housing is used and the bearing is fitted with spring loaded single lip seals with a retaining plate (**fig. 17**). Additional sealing is used between the cartridge seat and flanged housing, and O-rings are often added on the mounting face.

For high-speed applications, use:

- special high-speed spring loaded single lip seals or
- alternative seal types if a moderate leakage of water is permitted through the bearing in an emergency

Fig. 17

Bulkhead sealing



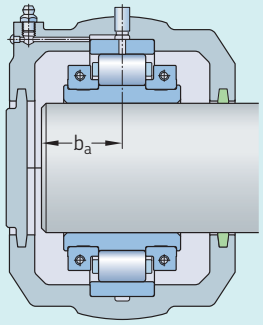
Bearing unit arrangement at shaft ends

Where split cylindrical roller bearings are mounted at shaft ends, an end cover (blanking plate) can be fitted, which:

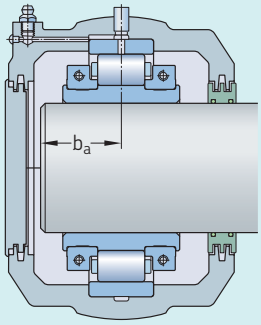
- closes off the open cartridge end
- fits standard single groove cartridges or cartridges for triple labyrinth seals
- can be used to locate the shaft axially with a thrust bearing for $d_a \leq 90$ mm (*3.5 in.*), e.g. in belt conveyers. In this case:
  - the shaft end must be machined with a flatness and squareness to tolerance grade IT7 in accordance with ISO 1101
  - there must be a slight operational clearance between the shaft end and the thrust bearing (b_c, **table 8**, **page 19**)
  - the arrangement is limited to a maximum speed dn = 20 000 mm/min (calculated using shaft size, not the bore of the thrust bearing)
  - the arrangement should only accommodate minimal axial loads

Table 8

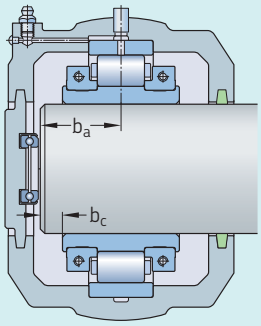
Permissible length of a shaft end with split cylindrical roller bearings



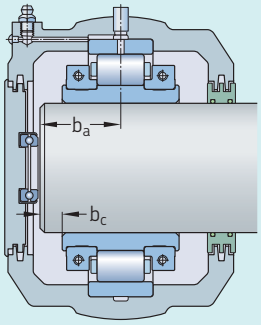
End cover without thrust bearing (designation suffix BP)



End cover without thrust bearing (designation suffix BPTL)



End cover with thrust bearing (designation suffix BT)



End cover with thrust bearing (designation suffix BTTL)

Shaft diameter	01 series bearings		02 series bearings	
d_a	b_a	b_c	b_a	b_c
mm/*in.*	–		–	
1 3/16	27	2	–	–
1 1/4	27	2	–	–
35	27	2	–	–
1 7/16	27	2	–	–
1 1/2	27	2	–	–
40	27	2	–	–
1 11/16	29	1	–	–
1 3/4	29	1	–	–
45	29	1	–	–
1 15/16	29	1	35	1
50	29	1	35	1
2	29	1	35	1
55	30	2	–	–
2 3/16	30	2	38	2
2 1/4	30	2	38	2
60	30	2	38	2
2 7/16	30	2	38	2
2 1/2	30	2	38	2
65	30	2	38	2
2 11/16	35	4	41	0
2 3/4	35	4	41	0
70	35	4	41	0
2 15/16	35	4	41	0
75	35	4	41	0
3	35	4	41	0
80	40	4	48	3
3 3/16	40	4	48	3
3 1/4	40	4	48	3
85	40	4	48	3
3 7/16	40	4	48	3
3 1/2	40	4	48	3
90	40	4	48	3

Additional information about end cover designations is on **page 190.**
Dimensions of larger sizes are available upon request.

Lubrication

SKF Cooper split bearings and housings are designed for grease lubrication, although oil lubrication is possible. The lubricant should be selected based on the operating conditions of the bearing.

Selecting a suitable SKF grease

The assortment of SKF greases for rolling bearings provides adequate choice for most application requirements. These greases have been developed based on the latest knowledge of rolling bearing lubrication and their quality is continuously monitored.

Using LubeSelect and selection rules

SKF LubeSelect is an online tool that lists SKF greases that fulfil the demands of your specified operating conditions. The analysis performed by the tool is based on generalized selection rules that have been carefully developed by SKF lubrication experts.

The same selection rules are used in the *SKF bearing grease selection chart*, **page 22**, where the following operating parameters are used for selecting a suitable grease:

- temperature (**table 9**)
- load range (**table 10**)
- speed (**table 11**)

The most important technical specifications for SKF greases are provided in *Technical specifications for SKF greases*, **page 24**.

For additional information about lubricant selection, refer to **skf.com/lubrication**.

Table 9

Temperature ranges for greases

Range		Temperature	
–		°C	*°F*
L	Low	< 50	*< 120*
M	Medium	50 to 100	*120 to 210*
H	High	> 100	*> 210*
EH	Extremely high	> 150	*> 300*

Table 10

Load ranges for greases

Load range		Load ratio
–		C/P
L	Low	≥ 15
M	Medium	≈ 8
H	High	≈ 4
VH	Very high	< 2

Table 11

Speed ranges for grease lubricated bearings

Speed range		Speed factor Cylindrical roller bearings nd_m [1]	Tapered roller bearings
–		mm/min	
VL	Very low	< 30 000	< 30 000
L	Low	< 75 000	< 75 000
M	Medium	≤ 270 000	≤ 210 000
H	High	> 270 000	> 210 000
VH	Very high	–	–
EH	Extremely high	–	–

[1] Speed factor nd_m [mm/min] = rotational speed [r/min] x (bearing mean diameter [mm] = 0,5 (d + D))

SKF bearing grease selection chart

Grease	Thickener	Base oil	NLGI grade	Base oil viscosity [1] 40 °C (105 °F)	100°C (210 °F)	LTL °C (°F)	LTPL °C (°F)	HTPL °C (°F)
LGMT 2	Li	Min	2	110	11	-30 (-22)	10 (50)	120 (248)
LGMT 3	Li	Min	3	125	12	-30 (-22)	40 (104)	120 (248)
LGEP 2	Li	Min	2	200	16	-20 (-4)	10 (50)	110 (230)
LGWA 2	Lix	Min	2	185	15	-30 (-22)	20 (68)	140 (284)
LGGB 2	Li-Ca	Ester	2	110	13	-40 (-40)	10 (50)	90 (194)
LGLT 2	Li	PAO	2	18	4,5	-50 (-58)	10 (50)	110 (230)
LGWM 1	Li	Min	1	200	16	-30 (-22)	0 (32)	110 (230)
LGEP 1	Li-Ca	Min	1	400	25	-20 (-4)	35 (95)	130 (266)
LGWM 2	CaSx	PAO/Min	1-2	80	8,6	-40 (-40)	10 (50)	110 (230)
LGEM 2	Li-Ca	Min	2	500	32	-20 (-4)	10 (50)	120 (248)
LGEV 2	Li-Ca	Min	2	1020	58	-10 (14)	30 (86)	120 (248)
LGHB 2	CaSx	Min	2	425	26,5	-20 (-4)	40 (104)	150 (302)
LGHC 2	CaSx	Min	2	450	31	-20 (-4)	30 (86)	140 (284)
LGHP 2	PU	Min	2-3	96	10,5	-40 (-40)	40 (104)	150 (302)
LGHQ 2	PU	Min	2	110	12	-30 (-22)	10 (50)	160 (320)
LGET 2	PTFE	PFPE	2	400	38	-40 (-40)	50 (122)	260 (500)
LGFG 2	CaSx	Min	2	150	16	-30 (-22)	30 (86)	140 (284)
LGFP 2	Alx	Min	2	150	15,3	-20 (-4)	20 (68)	110 (230)
LGFQ 2	CaSx	PAO	2	320	30	-40 (-40)	20 (68)	140 (284)
LGED 2	PTFE	PFPE	2	460	42	-30 (-22)	50 (122)	240 (464)

[1] mm^2/s at 40 °C (104 °F) = cSt.

LTL = Low temperature limit
LTPL = Low temperature performance limit
HTPL = High temperature performance limit
HTL = High temperature limit

HTL °C (°F)	Speed max. n x dm (x1000)	High load	Vertical shaft	Oscillating movements	Severe vibrations	Rust protection	Water resistance	Frequent start-up
180 (356)	300	–	o	o	+	+	+	o
180 (356)	300	–	++	o	++	+	+	o
180 (356)	300	+	o	o	+	+	+	++
250 (482)	300	o	o	–	+	+	+	+
170 (338)	300	o	o	+	–	o	+	+
180 (356)	1600	– –	o	–	– –	–	+	o
170 (338)	300	+	– –	+	–	+	+	++
170 (338)	300	++	– –	+	–	+	+	++
300 (572)	300	+	o	++	+	++	++	++
180 (356)	300	++	+	o	+	+	+	++
180 (356)	300	++	o	o	+	+	+	++
220 (428)	300	++	o	++	+	++	++	++
300 (572)	300	++	o	++	+	++	++	++
240 (464)	500	–	+	–	– –	++	++	o
260 (500)	500	o	o	–	– –	+	++	+
300 (572)	300	++	o	–	o	–	+	o
280 (536)	500	+	o	++	+	+	++	+
250 (482)	300	– –	o	–	– –	o	+	o
300 (572)	300	++	o	++	o	+	++	++
300 (572)	300	++	o	–	o	–	+	o

Wide applications greases

Low temperatures

High loads

High temperatures

Food grade

+ = Recommended o = Suitable – = Not suitable

skf.com/lubeselect

	LGMT 2	LGMT 3	LGEP 2	LGWA 2	LGGB 2	LGLT 2	LGWM 1
DIN 51825 code	K2K-30	K3K-30	KP2G-20	KP2N-30	KPE 2K-40	KHC2G-50	KP1G-30
NLGI consistency class	2	3	2	2	2	2	1
Thickener	Lithium	Lithium	Lithium	Lithium complex	Lithium/ calcium	Lithium	Lithium
Colour	Red brown	Amber	Light brown	Amber	Off white	Beige	Brown
Base oil type	Mineral	Mineral	Mineral	Mineral	Ester	PAO	Mineral
Operating temperature range	–30 to +120 °C *(–20 to +250 °F)*	–30 to +120 °C *(–20 to +250 °F)*	–20 to +110 °C *(–5 to +230 °F)*	–30 to +140 °C *(–20 to +285 °F)*	–40 to +90 °C *(–40 to +195 °F)*	–50 to +110 °C *(–60 to +230 °F)*	–30 to +110 °C *(–20 to +230 °F)*
Dropping point (min), ISO 2176	180 °C *(355 °F)*	180 °C *(355 °F)*	180 °C *(355 °F)*	250 °C *(480 °F)*	170 °C *(340 °F)*	180 °C *(355 °F)*	170 °C *(340 °F)*
Base oil viscosity, DIN 51562							
40 °C, mm^2/s	110	125	200	185	110	18	200
100 °C, mm^2/s	11	12	16	15	13	4,5	16
Penetration DIN ISO 2137							
Worked, 60 strokes, 10^{-1} mm	265–295	220–250	265–295	265–295	265–295	265–295	310–340
Prolonged (max.), 100 000 strokes, 10^{-1} mm	+50	280	+50	+50	+50	+50	+50
Mechanical stability							
Roll stability, ASTM D 1831 (max.) 50 hrs at 80 °C, 10^{-1} mm	+50	295	+50	+50	+70	–	–
V2F test, 144 hrs	M	M	M	–	–	–	–
Corrosion protection, Emcor							
ISO 11007, Distilled water	0–0	0–0	0–0	0–0	0–0	0–1	0–0
ISO 11007 modified, Water washout	0–0	0–0	0–0	0–0	–	–	0–0
ISO 11007 modified, 0.5% NaCl	–	–	–	–	–	–	0–0
Water resistance (max.)							
DIN 51 807/1, 3 hrs at 90 °C	1	1	1	1	0	1	1
Oil separation							
DIN 51 817, 40 °C, %	1–6	1–3	2–5	1–5	0,8–3	<4	8–13
Lubrication ability							
R2F, test B at 120 °C	Pass	Pass	Pass	Pass at 100 °C *(210 °F)*	Pass at 100 °C *(210 °F)*	–	Pass at 100 °C *(210 °F)*
Copper corrosion (max.)							
DIN 51811 / ASTM D4048, 24 hrs at 100 °C	2 max. at 110 °C *(230 °F)*	2 max. at 130 °C *(265 °F)*	2 max. at 110 °C *(230°F)*	2 max.	–	1 max.	2 max. at 90 °C *(>195 °F)*
Grease life (min)							
ROF test L_{50} life, 10 000 r/min, hrs at °C	1 000 at 100 °C *(212 °F)*	1 000 at 130 °C *(265 °F)*	1 000 at 110 °C *(230 °F)*	1 000 at 120 °C *(250 °F)*	1000 at 100 °C *(210 °F)*	1 000 at 100 °C *(210 °F)* and 20 000 r/min.	1000 at 100 °C *(210 °F)*
EP performance							
4 ball - Wear scar (max.) DIN 51 350, 1 400 N, mm	–	–	1.4	1.8	1.8	–	1.8
4 ball - Weld load (min.) DIN 51350/4, N	–	–	2 800	2 600	2 600	2 000 min.	2 800
Low temperature torque							
Start/Running, mNm	300/100 at –30 °C *(–20 °F)*	150/100 at –30 °C *(–20 °F)*	200/50 at –20 °C *(–5 °F)*	100/50 at –20 °C *(–5 °F)*	–	50/20 at –50 °C *(–60 °F)*	500/100 at –30 °C *(–20 °F)*

These characteristics represent typical values.

Wide applications greases

LGEP 1	LGWM 2	LGEM 2	LGEV 2	LGHB 2	LGHC 2	LGHP 2	LGHQ 2	LGET 2
KP1K-20	KP2G-40	KPF2K-20	KPF2K-10	KP2N-20	KP2N-20	K2N-40	K2P-30	KFK2U-40
1	1–2	2	2	2	2	2–3	2	2
Lithium-Calcium	Calcium sulphonate complex	Lithium/calcium	Lithium/calcium	Calcium sulphonate complex	Complex calcium sulphonate	Polyurea	Polyurea	PTFE
Beige	Light brown	Black	Black	Brown	Brown	Blue	Blue	White
Mineral	Mineral/PAO	Mineral	Mineral	Mineral	Mineral	Mineral	Mineral	PFPE
–20 to +120 °C *(–4 to +240 °F)*	–40 to +110 °C *(–40 to +230 °F)*	–20 to +120 °C *(–5 to +250 °F)*	–10 to +120 °C *(15 to 250 °F)*	–20 to +150 °C *(–5 to +300 °F)*	–20 to +140 °C *(–5 to +284 °F)*	–40 to +150 °C *(–40 to +300 °F)*	–30 to +160 °C *(–2 to +320 °F)*	–40 to +260 °C *(–40 to +500 °F)*
170 °C *(340 °F)*	300 °C *(570 °F)*	180 °C *(355 °F)*	180 °C *(355 °F)*	220 °C *(430 °F)*	300 °C *(570 °F)*	240 °C *(465 °F)*	260 °C *(500 °F)*	300 °C *(570 °F)*
400 25	80 10	500 32	1 020 47	425 27.5	450 31	96 10,5	110 12	400 38
310–340 +50	280–310 +30	265–295 +50	265–295 +50	265–295 –20 to +50	265–295 +30	245–275 365 max.	265–295 385 max.	265–295 –
+50 –	+30 –	+50 M	+50 M	–20 to +50 M	+30 –	365 max. –	385 max. –	+30 max. at 130 °C *(265 °F)* –
0–0 0–0 0–0 (1% NaCl)	0–0 0–0 0–0	0–0 0–0 2–2	0–0 0–0 2–2	0–0 0–0 0–0	0–0 – 0–1	0–0 0–0 0–0	0–0 0–1 –	1–1 – –
1	1	1	1	1	1	1	1	0
1–5	3 max.	1–5	1–5	1–3 at 60 °C *(140 °F)*	1–3 at 60 °C *(140 °F)*	3 max.	1-3	1-3
Pass at 80 °C *(176 °F)*	Pass,	Pass, 100 °C *(210 °F)*	Pass, 100 °C *(210 °F)*	Pass at 140 °C *(284 °F)*	Pass	Pass at 100 °C *(210 °F)*	Pass at 100 °C *(210 °F)*	–
1 max. at 120 °C *(250 °F)*	2 max.	2 max.	1 max	2 max. at 150 °C *(302 °F)*	1b	1 max. at 150 °C *(300 °F)*	1b max. at 100 °C *(210 °F)*	1 max. at 150 °C *(300 °F)*
1000 at 100 °C *(210 °F)*	1000 at 110 °C *(230 °F)*	1000 at 100 °C *(210 °F)*	1000 at 100 °C *(210 °F)*	1 000 at 130 °C *(265 °F)*	1000 at 110 °C *(230 °F)*	1 000 at 150 °C *(300 °F)*	1 000 at 160 °C *(302 °F)*	1 000 at 220 °C *(428 °F)*
1,8 3 400	2 4 000	1,2 3 400	1,2 3 000	2 4 000	1.2 4 000	– –	1 2600	– 8 000 min.
300/100 at –20 °C *(–5 °F)*	900/200 at –40 °C *(–40 °F)*	150/50 at, –20 °C *(–5 °F)*	150/100 at –10 °C *(14 °F)*	350/100 at –20 °C *(–5 °F)*	250/100 at –20 °C (–5 °F)	1 000,/300 at –40 °C *(–40 °F)*	550/100 –30 °C *(–20 °F)*	–

Low temperatures

High loads

High temperatures

Initial grease fill

During installation, the initial grease fill can be determined from **table 12, pages 27 to 33** for split cylindrical roller bearings and from **table 13**, **page 34** for split tapered roller bearings as follows:

- For operating temperatures ≤ 80 °C (*175 °F*), the initial fill depends on the operating speed of the bearing.
- For operating temperatures > 80 °C (*175 °F*), use a 25% initial fill, regardless of the speed of the bearing.

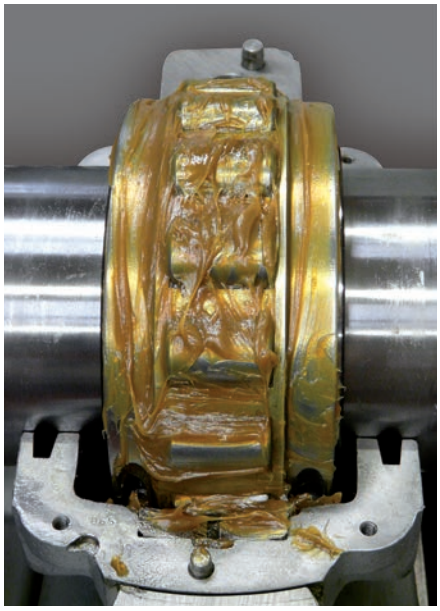


Table 12

Initial grease fill – split cylindrical roller bearings[1)]

Shaft diameter d_a	Designations Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Speed <	Initial fill 100%	Speed > ≤	Initial fill 75%	Speed > ≤	Initial fill 50%	Speed > ≤	Initial fill 33%	Speed >	Initial fill 25%
mm/*in.*				r/min	kg	r/min	kg	r/min	kg	r/min	kg	r/min	kg
1 3/16	**01EB103**	–	**01C1**	1 312	0,06	1 312 2 625	0,05	2 625 3 937	0,03	3 937 5 249	0,02	5 249	0,02
1 1/4	**01EB104**	–	**01C1**	1 312	0,06	1 312 2 625	0,05	2 625 3 937	0,03	3 937 5 249	0,02	5 249	0,02
35	**01EB35M**	–	**01C1**	1 312	0,06	1 312 2 625	0,05	2 625 3 937	0,03	3 937 5 249	0,02	5 249	0,02
1 7/16	**01EB107**	–	**01C1**	1 312	0,06	1 312 2 625	0,05	2 625 3 937	0,03	3 937 5 249	0,02	5 249	0,02
1 1/2	**01EB108**	**01C108**	**01C1**	1 312	0,06	1 312 2 625	0,05	2 625 3 937	0,03	3 937 5 249	0,02	5 249	0,02
40	**01EB40M**	**01C40M**	**01C1**	1 312	0,06	1 312 2 625	0,05	2 625 3 937	0,03	3 937 5 249	0,02	5 249	0,02
1 11/16	**01EB111**	**01C111**	**01C2**	984	0,09	984 1 969	0,07	1 969 2 953	0,05	2 953 3 937	0,03	3 937	0,02
1 3/4	**01EB112**	**01C112**	**01C2**	984	0,09	984 1 969	0,07	1 969 2 953	0,05	2 953 3 937	0,03	3 937	0,02
45	**01EB45M**	**01C45M**	**01C2**	984	0,09	984 1 969	0,07	1 969 2 953	0,05	2 953 3 937	0,03	3 937	0,02
1 15/16	**01EB115**	**01C115**	**01C2**	984	0,09	984 1 969	0,07	1 969 2 953	0,05	2 953 3 937	0,03	3 937	0,02
	02EB115	**02C115**	**02C3**	984	0,15	984 1 969	0,11	1 969 2 953	0,08	2 953 3 937	0,05	3 937	0,04
50	**01EB50M**	**01C50M**	**01C2**	984	0,09	984 1 969	0,07	1 969 2 953	0,05	2 953 3 937	0,03	3 937	0,02
	02EB50M	**02C50M**	**02C3**	984	0,15	984 1 969	0,11	1 969 2 953	0,08	2 953 3 937	0,05	3 937	0,04
2	**01EB200**	**01C200**	**01C2**	984	0,09	984 1 969	0,07	1 969 2 953	0,05	2 953 3 937	0,03	3 937	0,02
	02EB200	**02C200**	**02C3**	984	0,15	984 1 969	0,11	1 969 2 953	0,08	2 953 3 937	0,05	3 937	0,04
55	**01EB55M**	**01C55M**	**01C3**	787	0,15	787 1 575	0,11	1 575 2 362	0,08	2 362 3 150	0,05	3 150	0,04
2 3/16	**01EB203**	**01C203**	**01C3**	787	0,15	787 1 575	0,11	1 575 2 362	0,08	2 362 3 150	0,05	3 150	0,04
	02EB203	**02C203**	**02C4**	787	0,21	787 1 575	0,16	1 575 2 362	0,11	2 362 3 150	0,07	3 150	0,05
2 1/4	**01EB204**	**01C204**	**01C3**	787	0,15	787 1 575	0,11	1 575 2 362	0,08	2 362 3 150	0,05	3 150	0,04
	02EB204	**02C204**	**02C4**	787	0,21	787 1 575	0,16	1 575 2 362	0,11	2 362 3 150	0,07	3 150	0,05
60	**01EB60M**	**01C60M**	**01C3**	787	0,15	787 1 575	0,11	1 575 2 362	0,08	2 362 3 150	0,05	3 150	0,04
	02EB60M	**02C60M**	**02C4**	787	0,21	787 1 575	0,16	1 575 2 362	0,11	2 362 3 150	0,07	3 150	0,05
2 7/16	**01EB207**	**01C207**	**01C3**	787	0,15	787 1 575	0,11	1 575 2 362	0,08	2 362 3 150	0,05	3 150	0,04
	02EB207	**02C207**	**02C4**	787	0,21	787 1 575	0,16	1 575 2 362	0,11	2 362 3 150	0,07	3 150	0,05
2 1/2	**01EB208**	**01C208**	**01C3**	787	0,15	787 1 575	0,11	1 575 2 362	0,08	2 362 3 150	0,05	3 150	0,04
	02EB208	**02C208**	**02C4**	787	0,21	787 1 575	0,16	1 575 2 362	0,11	2 362 3 150	0,07	3 150	0,05
65	**01EB65M**	**01C65M**	**01C3**	787	0,15	787 1 575	0,11	1 575 2 362	0,08	2 362 3 150	0,05	3 150	0,04
	02EB65M	**02C65M**	**02C4**	787	0,21	787 1 575	0,16	1 575 2 362	0,11	2 362 3 150	0,07	3 150	0,05
2 11/16	**01EB211**	**01C211**	**01C4**	656	0,18	656 1 312	0,14	1 312 1 969	0,09	1 969 2 625	0,06	2 625	0,05
	02EB211	**02C211**	**02C5**	656	0,3	656 1 312	0,23	1 312 1 969	0,15	1 969 2 625	0,1	2 625	0,08
2 3/4	**01EB212**	**01C212**	**01C4**	656	0,18	656 1 312	0,14	1 312 1 969	0,09	1 969 2 625	0,06	2 625	0,05
	02EB212	**02C212**	**02C5**	656	0,3	656 1 312	0,23	1 312 1 969	0,15	1 969 2 625	0,1	2 625	0,08
70	**01EB70M**	**01C70M**	**01C4**	656	0,18	656 1 312	0,14	1 312 1 969	0,09	1 969 2 625	0,06	2 625	0,05
	02EB70M	**02C70M**	**02C5**	656	0,3	656 1 312	0,23	1 312 1 969	0,15	1 969 2 625	0,1	2 625	0,08
2 15/16	**100B215**	**100C215**	**100C3**	656	0,15	656 1 312	0,11	1 312 1 969	0,08	1 969 2 625	0,05	2 625	0,04
	01EB215	**01C215**	**01C4**	656	0,18	656 1 312	0,14	1 312 1 969	0,09	1 969 2 625	0,06	2 625	0,05
	02EB215	**02C215**	**02C5**	656	0,3	656 1 312	0,23	1 312 1 969	0,15	1 969 2 625	0,1	2 625	0,08
75	**100B75M**	**100C75M**	**100C3**	656	0,15	656 1 312	0,11	1 312 1 969	0,08	1 969 2 625	0,05	2 625	0,04
	01EB75M	**01C75M**	**01C4**	656	0,18	656 1 312	0,14	1 312 1 969	0,09	1 969 2 625	0,06	2 625	0,05
	02EB75M	**02C75M**	**02C5**	656	0,3	656 1 312	0,23	1 312 1 969	0,15	1 969 2 625	0,1	2 625	0,08

1) The values are valid for a typical lithium grease (about 0,85 g/cm³)

cont. table 12

Initial grease fill – split cylindrical roller bearings[1)]

Shaft diameter d_a	Designations Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Speed <	Initial fill 100%	Speed > ≤	Initial fill 75%	Speed > ≤	Initial fill 50%	Speed > ≤	Initial fill 33%	Speed >	Initial fill 25%
mm/*in.*				r/min	kg	r/min	kg	r/min	kg	r/min	kg	r/min	kg
3	**100B300**	**100C300**	**100C3**	656	0,15	656 1 312	0,11	1 312 1 969	0,08	1 969 2 625	0,05	2 625	0,04
	01EB300	**01C300**	**01C4**	656	0,18	656 1 312	0,14	1 312 1 969	0,09	1 969 2 625	0,06	2 625	0,05
	02EB300	**02C300**	**02C5**	656	0,3	656 1 312	0,23	1 312 1 969	0,15	1 969 2 625	0,1	2 625	0,08
80	**01EB80M**	**01C80M**	**01C5**	562	0,3	562 1 125	0,23	1 125 1 687	0,15	1 687 2 250	0,1	2 250	0,08
	02EB80M	**02C80M**	**02C6**	562	0,45	562 1 125	0,34	1 125 1 687	0,23	1 687 2 250	0,15	2 250	0,11
3 3/16	**01EB303**	**01C303**	**02C6**	562	0,3	562 1 125	0,23	1 125 1 687	0,15	1 687 2 250	0,1	2 250	0,08
	02EB303	**02C303**	**01C5**	562	0,45	562 1 125	0,34	1 125 1 687	0,23	1 687 2 250	0,15	2 250	0,11
3 1/4	**01EB304**	**01C304**	**01C5**	562	0,3	562 1 125	0,23	1 125 1 687	0,15	1 687 2 250	0,1	2 250	0,08
	02EB304	**02C304**	**02C6**	562	0,45	562 1 125	0,34	1 125 1 687	0,23	1 687 2 250	0,15	2 250	0,11
85	**100B85M**	**100C85M**	**100C4**	573	0,22	573 1 145	0,17	1 145 1 718	0,11	1 718 2 291	0,07	2 291	0,06
	01EB85M	**01C85M**	**01C5**	562	0,3	562 1 125	0,23	1 125 1 687	0,15	1 687 2 250	0,1	2 250	0,08
	02EB85M	**02C85M**	**02C6**	562	0,45	562 1 125	0,34	1 125 1 687	0,23	1 687 2 250	0,15	2 250	0,11
3 7/16	**100B307**	**100C307**	**100C4**	573	0,22	573 1 145	0,17	1 145 1 718	0,11	1 718 2 291	0,07	2 291	0,06
	01EB307	**01C307**	**01C5**	562	0,3	562 1 125	0,23	1 125 1 687	0,15	1 687 2 250	0,1	2 250	0,08
	02EB307	**02C307**	**02C6**	562	0,45	562 1 125	0,34	1 125 1 687	0,23	1 687 2 250	0,15	2 250	0,11
3 1/2	**01EB308**	**01C308**	**02C6**	562	0,3	562 1 125	0,23	1 125 1 687	0,15	1 687 2 250	0,1	2 250	0,08
	02EB308	**02C308**	**01C5**	562	0,45	562 1 125	0,34	1 125 1 687	0,23	1 687 2 250	0,15	2 250	0,11
90	**01EB90M**	**01C90M**	**01C5**	562	0,3	562 1 125	0,23	1 125 1 687	0,15	1 687 2 250	0,1	2 250	0,08
	02EB90M	**02C90M**	**02C6**	562	0,45	562 1 125	0,34	1 125 1 687	0,23	1 687 2 250	0,15	2 250	0,11
3 11/16	**01EB311**	**01C311**	**01C6**	492	0,36	492 984	0,27	984 1 476	0,18	1 476 1 969	0,12	1 969	0,09
	02EB311	**02C311**	**02C7**	492	0,6	492 984	0,45	984 1 476	0,3	1 476 1 969	0,2	1 969	0,15
95	**01EB95M**	**01C95M**	**01C6**	492	0,36	492 984	0,27	984 1 476	0,18	1 476 1 969	0,12	1 969	0,09
3 3/4	**01EB312**	**01C312**	**01C6**	492	0,36	492 984	0,27	984 1 476	0,18	1 476 1 969	0,12	1 969	0,09
	02EB312	**02C312**	**02C7**	492	0,6	492 984	0,45	984 1 476	0,3	1 476 1 969	0,2	1 969	0,15
100	**100B100M**	**100C100M**	**100C5**	492	0,36	492 984	0,27	984 1 476	0,18	1 476 1 969	0,12	1 969	0,09
	01EB100M	**01C100M**	**01C6**	492	0,36	492 984	0,27	984 1 476	0,18	1 476 1 969	0,12	1 969	0,09
	02EB100M	**02C100M**	**02C7**	492	0,6	492 984	0,45	984 1 476	0,3	1 476 1 969	0,2	1 969	0,15
	03B100M	**03C100M**	**03C54**	492	1,2	492 984	0,9	984 1 476	0,6	1 476 1 969	0,4	1 969	0,3
3 15/16	**100B315**	**100C315**	**100C5**	492	0,36	492 984	0,27	984 1 476	0,18	1 476 1 969	0,12	1 969	0,09
	01EB315	**01C315**	**01C6**	492	0,36	492 984	0,27	984 1 476	0,18	1 476 1 969	0,12	1 969	0,09
	02EB315	**02C315**	**02C7**	492	0,6	492 984	0,45	984 1 476	0,3	1 476 1 969	0,2	1 969	0,15
	03B315	**03C315**	**03C54**	492	1,2	492 984	0,9	984 1 476	0,6	1 476 1 969	0,4	1 969	0,3
4	**100B400**	**100C400**	**100C5**	492	0,36	492 984	0,27	984 1 476	0,18	1 476 1 969	0,12	1 969	0,09
	01EB400	**01C400**	**01C6**	492	0,36	492 984	0,27	984 1 476	0,18	1 476 1 969	0,12	1 969	0,09
	02EB400	**02C400**	**02C7**	492	0,6	492 984	0,45	984 1 476	0,3	1 476 1 969	0,2	1 969	0,15
	03B400	**03C400**	**03C54**	492	1,2	492 984	0,9	984 1 476	0,6	1 476 1 969	0,4	1 969	0,3
105	**01EB105M**	**01C105M**	**01C6**	492	0,36	492 984	0,27	984 1 476	0,18	1 476 1 969	0,12	1 969	0,09
	02EB105M	**02C105M**	**02C7**	492	0,6	492 984	0,45	984 1 476	0,3	1 476 1 969	0,2	1 969	0,15
4 3/16	**01EB403**	**01C403**	**01C7**	437	0,51	437 875	0,38	875 1 312	0,26	1 312 1 750	0,17	1 750	0,13
	02EB403	**02C403**	**02C8**	437	0,9	437 875	0,68	875 1 312	0,45	1 312 1 750	0,3	1 750	0,23
110	**100B110M**	**100C110M**	**100C6**	437	0,36	437 875	0,27	875 1 312	0,18	1 312 1 750	0,12	1 750	0,09
	01EB110M	**01C110M**	**01C7**	437	0,51	437 875	0,38	875 1 312	0,26	1 312 1 750	0,17	1 750	0,13
	02EB110M	**02C110M**	**02C8**	437	0,9	437 875	0,68	875 1 312	0,45	1 312 1 750	0,3	1 750	0,23
	03B110M	**03C110M**	**03C55**	437	1,4	437 875	1,05	875 1 312	0,7	1 312 1 750	0,46	1 750	0,35

[1)] The values are valid for a typical lithium grease (about 0,85 g/cm³)

cont. table 12

Initial grease fill – split cylindrical roller bearings[1)]

Shaft diameter d_a	Designations Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Speed <	Initial fill 100%	Speed >	≤	Initial fill 75%	Speed >	≤	Initial fill 50%	Speed >	≤	Initial fill 33%	Speed >	Initial fill 25%
mm/*in.*				r/min	kg	r/min		kg	r/min		kg	r/min		kg	r/min	kg
4 7/16	100B407	100C407	100C6	437	0,36	437	875	0,27	875	1 312	0,18	1 312	1 750	0,12	1 750	0,09
	01EB407	01C407	01C7	437	0,51	437	875	0,38	875	1 312	0,26	1 312	1 750	0,17	1 750	0,13
	02EB407	02C407	02C8	437	0,9	437	875	0,68	875	1 312	0,45	1 312	1 750	0,3	1 750	0,23
	03B407	03C407	03C55	437	1,4	437	875	1,05	875	1 312	0,7	1 312	1 750	0,46	1 750	0,35
4 1/2	100B408	100C408	100C6	437	0,36	437	875	0,27	875	1 312	0,18	1 312	1 750	0,12	1 750	0,09
	01EB408	01C408	01C7	437	0,51	437	875	0,38	875	1 312	0,26	1 312	1 750	0,17	1 750	0,13
	02EB408	02C408	02C8	437	0,9	437	875	0,68	875	1 312	0,45	1 312	1 750	0,3	1 750	0,23
	03B408	03C408	03C55	437	1,4	437	875	1,05	875	1 312	0,7	1 312	1 750	0,46	1 750	0,35
115	100B115M	100C115M	100C6	437	0,36	437	875	0,27	875	1 312	0,18	1 312	1 750	0,12	1 750	0,09
	01EB115M	01C115M	01C7	437	0,51	437	875	0,38	875	1 312	0,26	1 312	1 750	0,17	1 750	0,13
	0E2B115M	02C115M	02C8	437	0,9	437	875	0,68	875	1 312	0,45	1 312	1 750	0,3	1 750	0,23
120	100B120M	100C120M	100C7	394	0,49	394	787	0,37	787	1 181	0,25	1 181	1 575	0,16	1 575	0,12
	01EB120M	01C120M	01C8	394	0,6	394	787	0,45	787	1 181	0,3	1 181	1 575	0,2	1 575	0,15
	02EB120M	02C120M	02C10	394	1,2	394	787	0,9	787	1 181	0,6	1 181	1 575	0,4	1 575	0,3
	03B120M	03C120M	03C55	437	1,4	437	875	1,05	875	1 312	0,7	1 312	1 750	0,46	1 750	0,35
125	100B125M	100C125M	100C7	394	0,49	394	787	0,37	787	1 181	0,25	1 181	1 575	0,16	1 575	0,12
	01EB125M	01C125M	01C8	394	0,6	394	787	0,45	787	1 181	0,3	1 181	1 575	0,2	1 575	0,15
	02EB125M	02C125M	02C10	394	1,2	394	787	0,9	787	1 181	0,6	1 181	1 575	0,4	1 575	0,3
4 15/16	100B415	100C415	100C7	394	0,49	394	787	0,37	787	1 181	0,25	1 181	1 575	0,16	1 575	0,12
	01EB415	01C415	01C8	394	0,6	394	787	0,45	787	1 181	0,3	1 181	1 575	0,2	1 575	0,15
	02EB415	02C415	02C10	394	1,2	394	787	0,9	787	1 181	0,6	1 181	1 575	0,4	1 575	0,3
	03B415	03C415	03C56	394	1,4	394	787	1,05	787	1 181	0,7	1 181	1 575	0,46	1 575	0,35
5	100B500	100C500	100C7	394	0,49	394	787	0,37	787	1 181	0,25	1 181	1 575	0,16	1 575	0,12
	01EB500	01C500	01C8	394	0,6	394	787	0,45	787	1 181	0,3	1 181	1 575	0,2	1 575	0,15
	02EB500	02C500	02C10	394	1,2	394	787	0,9	787	1 181	0,6	1 181	1 575	0,4	1 575	0,3
	03B500	03C500	03C56	394	1,4	394	787	1,05	787	1 181	0,7	1 181	1 575	0,46	1 575	0,35
130	100B130M	100C130M	100C7	394	0,49	394	787	0,37	787	1 181	0,25	1 181	1 575	0,16	1 575	0,12
	01EB130M	01C130M	01C8	394	0,6	394	787	0,45	787	1 181	0,3	1 181	1 575	0,2	1 575	0,15
	02EB130M	02C130M	02C10	394	1,2	394	787	0,9	787	1 181	0,6	1 181	1 575	0,4	1 575	0,3
	03B130M	03C130M	03C56	394	1,4	394	787	1,05	787	1 181	0,7	1 181	1 575	0,46	1 575	0,35
5 3/16	01EB503	01C503	01C9	358	0,78	358	716	0,59	716	1 074	0,39	1 074	1 432	0,26	1 432	0,2
	02EB503	02C503	02C30	358	1,4	358	716	1,05	716	1 074	0,7	1 074	1 432	0,46	1 432	0,35
135	01EB135M	01C135M	01C9	358	0,78	358	716	0,59	716	1 074	0,39	1 074	1 432	0,26	1 432	0,2
5 7/16	100B507	100C507	100C8	358	0,64	358	716	0,48	716	1 074	0,32	1 074	1 432	0,21	1 432	0,16
	01EB507	01C507	01C9	358	0,78	358	716	0,59	716	1 074	0,39	1 074	1 432	0,26	1 432	0,2
	02EB507	02C507	02C30	358	1,4	358	716	1,05	716	1 074	0,7	1 074	1 432	0,46	1 432	0,35
	03B507	03C507	03C57	358	2	358	716	1,5	716	1 074	1	1 074	1 432	0,66	1 432	0,5
5 1/2	100B508	100C508	100C8	358	0,64	358	716	0,48	716	1 074	0,32	1 074	1 432	0,21	1 432	0,16
	01EB508	01C508	01C9	358	0,78	358	716	0,59	716	1 074	0,39	1 074	1 432	0,26	1 432	0,2
	02EB508	02C508	02C30	358	1,4	358	716	1,05	716	1 074	0,7	1 074	1 432	0,46	1 432	0,35
	03B508	03C508	03C57	358	2	358	716	1,5	716	1 074	1	1 074	1 432	0,66	1 432	0,5
140	100B140M	100C140M	100C8	358	0,64	358	716	0,48	716	1 074	0,32	1 074	1 432	0,21	1 432	0,16
	01EB140M	01C140M	01C9	358	0,78	358	716	0,59	716	1 074	0,39	1 074	1 432	0,26	1 432	0,2
	02EB140M	02C140M	02C30	358	1,4	358	716	1,05	716	1 074	0,7	1 074	1 432	0,46	1 432	0,35
	03B140M	03C140M	03C57	358	2	358	716	1,5	716	1 074	1	1 074	1 432	0,66	1 432	0,5
145	02EB145M	02C145M	02C30	358	1,4	358	716	1,05	716	1 074	0,7	1 074	1 432	0,46	1 432	0,35

[1)] The values are valid for a typical lithium grease (about 0,85 g/cm³)

cont. table 12

Initial grease fill – split cylindrical roller bearings[1)]

Shaft diameter d_a	Designations Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Speed <	Initial fill 100%	Speed >	≤	Initial fill 75%	Speed >	≤	Initial fill 50%	Speed >	≤	Initial fill 33%	Speed >	Initial fill 25%
mm/*in.*				r/min	kg	r/min		kg	r/min		kg	r/min		kg	r/min	kg
150	**100B150M**	**100C150M**	**100C9**	328	1,02	328	656	0,77	656	984	0,51	984	1 312	0,34	1 312	0,26
	01EB150M	**01C150M**	**01C10**	328	0,9	328	656	0,68	656	984	0,45	984	1 312	0,3	1 312	0,23
	02EB150M	**02C150M**	**02C31**	328	1,4	328	656	1,05	656	984	0,7	984	1 312	0,46	1 312	0,35
	03B150M	**03C150M**	**03C58**	328	2,7	328	656	2,03	656	984	1,35	984	1 312	0,89	1 312	0,68
5 15/16	**100B515**	**100C515**	**100C9**	328	1,02	328	656	0,77	656	984	0,51	984	1 312	0,34	1 312	0,26
	01EB515	**01C515**	**01C10**	328	0,9	328	656	0,68	656	984	0,45	984	1 312	0,3	1 312	0,23
	02EB515	**02C515**	**02C31**	328	1,4	328	656	1,05	656	984	0,7	984	1 312	0,46	1 312	0,35
	03B515	**03C515**	**03C58**	328	2,7	328	656	2,03	656	984	1,35	984	1 312	0,89	1 312	0,68
6	**100B508**	**100C508**	**100C9**	328	1,02	328	656	0,77	656	984	0,51	984	1 312	0,34	1 312	0,26
	01EB600	**01C600**	**01C10**	328	0,9	328	656	0,68	656	984	0,45	984	1 312	0,3	1 312	0,23
	02EB600	**02C600**	**02C31**	328	1,4	328	656	1,05	656	984	0,7	984	1 312	0,46	1 312	0,35
	03B600	**03C600**	**03C58**	328	2,7	328	656	2,03	656	984	1,35	984	1 312	0,89	1 312	0,68
155	**01EB155M**	**01C155M**	**01C10**	328	0,9	328	656	0,68	656	984	0,45	984	1 312	0,3	1 312	0,23
	02EB155M	**02C155M**	**02C31**	328	1,4	328	656	1,05	656	984	0,7	984	1 312	0,46	1 312	0,35
160	**01EB160MEX10**	**01C160MEX14**	**01C10EX10**	328	0,9	328	656	0,68	656	984	0,45	984	1 312	0,3	1 312	0,23
	01EB160MGR10	**01C160MGR10**	**01C10GR10**	328	0,9	328	656	0,68	656	984	0,45	984	1 312	0,3	1 312	0,23
	01EB160M	**01C160M**	**01C11**	303	1	303	606	0,75	606	909	0,5	909	1 211	0,33	1 211	0,25
	02EB160MEX10	**02C160MEX10**	**02C31EX10**	328	1,4	328	656	1,05	656	984	0,7	984	1 312	0,46	1 312	0,35
	02EB160MGR10	**02C160MGR10**	**02C31GR10**	328	1,4	328	656	1,05	656	984	0,7	984	1 312	0,46	1 312	0,35
	02EB160M	**02C160M**	**02C32**	303	1,4	303	606	1,05	606	909	0,7	909	1 211	0,46	1 211	0,35
	03B160M	**03C160M**	**03C59**	303	3,6	303	606	2,7	606	909	1,8	909	1 211	1,19	1 211	0,9
6 7/16	**01EB607**	**01C607**	**01C11**	303	1	303	606	0,75	606	909	0,5	909	1 211	0,33	1 211	0,25
	02EB607	**02C607**	**02C32**	303	1,4	303	606	1,05	606	909	0,7	909	1 211	0,46	1 211	0,35
	03B607	**03C607**	**03C59**	303	3,6	303	606	2,7	606	909	1,8	909	1 211	1,19	1 211	0,9
6 1/2	**01EB608**	**01C608**	**01C11**	303	1	303	606	0,75	606	909	0,5	909	1 211	0,33	1 211	0,25
	02EB608	**02C608**	**02C32**	303	1,4	303	606	1,05	606	909	0,7	909	1 211	0,46	1 211	0,35
	03B608	**03C608**	**03C59**	303	3,6	303	606	2,7	606	909	1,8	909	1 211	1,19	1 211	0,9
170	**01EB170MEX13**	**01C170MEX13**	**01C11EX10**	303	1	303	606	0,75	606	909	0,5	909	1 211	0,33	1 211	0,25
	01EB170MGR14	**01C170MGR15**	**01C11GR10**	303	1	303	606	0,75	606	909	0,5	909	1 211	0,33	1 211	0,25
	01EB170M	**01C170M**	**01C12**	281	1,2	281	562	0,9	562	844	0,6	844	1 125	0,4	1 125	0,3
	02EB170M	**02C170M**	**02C32EX10**	303	1,4	303	606	1,05	606	909	0,7	909	1 211	0,46	1 211	0,35
	02EB170M	**02C170M**	**02C32GR10**	303	1,4	303	606	1,05	606	909	0,7	909	1 211	0,46	1 211	0,35
	03B170M	**03C170M**	**03C59**	303	3,6	303	606	2,7	606	909	1,8	909	1 211	1,19	1 211	0,9
175	**01EB175M**	**01C175M**	**01C12**	281	1,2	281	562	0,9	562	844	0,6	844	1 125	0,4	1 125	0,3
	02EB175M	**02C175M**	**02C33**	303	2	303	606	1,5	606	909	1	909	1 211	0,66	1 211	0,5
6 15/16	**01EB615**	**01C615**	**01C12**	281	1,2	281	562	0,9	562	844	0,6	844	1 125	0,4	1 125	0,3
	02EB615	**02C615**	**02C33**	303	2	303	606	1,5	606	909	1	909	1 211	0,66	1 211	0,5
	03B615	**03C615**	**03C60**	281	4,2	281	562	3,15	562	844	2,1	844	1 125	1,39	1 125	1,05
7	**01EB700**	**01C700**	**01C12**	281	1,2	281	562	0,9	562	844	0,6	844	1 125	0,4	1 125	0,3
	02EB700	**02C700**	**02C33**	303	2	303	606	1,5	606	909	1	909	1 211	0,66	1 211	0,5
	03B700	**03C700**	**03C60**	281	4,2	281	562	3,15	562	844	2,1	844	1 125	1,39	1 125	1,05
180	**01EB180M**	**01C180M**	**01C12**	281	1,2	281	562	0,9	562	844	0,6	844	1 125	0,4	1 125	0,3
	02EB180M	**02C180M**	**02C33**	303	2	303	606	1,5	606	909	1	909	1 211	0,66	1 211	0,5
	03B180M	**03C180M**	**03C60**	281	4,2	281	562	3,15	562	844	2,1	844	1 125	1,39	1 125	1,05
190	**01EB190M**	**01C190M**	**01C13**	246	1,4	246	492	1,05	492	738	0,7	738	984	0,46	984	0,35
	02EB190M	**02C190M**	**02C34**	246	2,7	246	492	2,03	492	738	1,35	738	984	0,89	984	0,68
	03B190M	**03C190M**	**03C61**	246	5,4	246	492	4,05	492	738	2,7	738	984	1,78	984	1,35
200	**100B200M**	**100C200M**	2)	246	0,9	246	492	0,68	492	738	0,45	738	984	0,3	984	0,23
	01EB200M	**01C200M**	**01C13**	246	1,4	246	492	1,05	492	738	0,7	738	984	0,46	984	0,35
	02EB200M	**02C200M**	**02C34**	246	2,7	246	492	2,03	492	738	1,35	738	984	0,89	984	0,68
	03B200M	**03C200M**	**03C61**	246	5,4	246	492	4,05	492	738	2,7	738	984	1,78	984	1,35

1) The values are valid for a typical lithium grease (about 0,85 g/cm³)
2) Contact SKF

cont. table 12

Initial grease fill – split cylindrical roller bearings[1)]

Shaft diameter d_a	Designations Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Speed <	Initial fill 100%	Speed >	≤	Initial fill 75%	Speed >	≤	Initial fill 50%	Speed >	≤	Initial fill 33%	Speed >	Initial fill 25%
mm/*in.*				r/min	kg	r/min		kg	r/min		kg	r/min		kg	r/min	kg
7 15/16	**100B715**	**100C715**	[2)]	246	0,9	246	492	0,68	492	738	0,45	738	984	0,3	984	0,23
	01EB715	**01C715**	**01C13**	246	1,4	246	492	1,05	492	738	0,7	738	984	0,46	984	0,35
	02EB715	**02C715**	**02C34**	246	2,7	246	492	2,03	492	738	1,35	738	984	0,89	984	0,68
	03B715	**03C715**	**03C61**	246	5,4	246	492	4,05	492	738	2,7	738	984	1,78	984	1,35
8	**100B800**	**100C800**	[2)]	246	0,9	246	492	0,68	492	738	0,45	738	984	0,3	984	0,23
	01EB800	**01C800**	**01C13**	246	1,4	246	492	1,05	492	738	0,7	738	984	0,46	984	0,35
	02EB800	**02C800**	**02C34**	246	2,7	246	492	2,03	492	738	1,35	738	984	0,89	984	0,68
	03B800	**03C800**	**03C61**	246	5,4	246	492	4,05	492	738	2,7	738	984	1,78	984	1,35
220	**100B220M**	**100C220M**	[2)]	232	1,35	232	463	1,01	463	695	0,68	695	926	0,45	926	0,34
	01EB220M	**01C220M**	**01C14**	219	1,4	219	437	1,05	437	656	0,7	656	875	0,46	875	0,35
	02EB220M	**02C220M**	**02C35**	219	3,6	219	437	2,7	437	656	1,8	656	875	1,19	875	0,9
	03B220M	**03C220M**	**03C62**	219	6,9	219	437	5,18	437	656	3,45	656	875	2,28	875	1,73
9	**01EB900**	**01C900**	**01C14**	219	1,4	219	437	1,05	437	656	0,7	656	875	0,46	875	0,35
	02EB900	**02C900**	**02C35**	219	3,6	219	437	2,7	437	656	1,8	656	875	1,19	875	0,9
	03B900	**03C900**	**03C62**	219	6,9	219	437	5,18	437	656	3,45	656	875	2,28	875	1,73
230	**01EB230M**	**01C230M**	**01C14**	219	1,4	219	437	1,05	437	656	0,7	656	875	0,46	875	0,35
	02EB230M	**02C230M**	**02C35**	219	3,6	219	437	2,7	437	656	1,8	656	875	1,19	875	0,9
240	**01EB240M**	**01C240M**	**01C15**	197	2	197	394	1,5	394	591	1	591	787	0,66	787	0,5
	02EB240M	**02C240M**	**02C36**	197	4,2	197	394	3,15	394	591	2,1	591	787	1,39	787	1,05
	03B240M	**03C240M**	**03C63**	197	8,1	197	394	6,08	394	591	4,05	591	787	2,67	787	2,03
250	**01EB250M**	**01C250M**	**01C15**	197	2	197	394	1,5	394	591	1	591	787	0,66	787	0,5
	02EB250M	**02C250M**	**02C36**	197	4,2	197	394	3,15	394	591	2,1	591	787	1,39	787	1,05
	03B250M	**03C250M**	**03C63**	197	8,1	197	394	6,08	394	591	4,05	591	787	2,67	787	2,03
10	**01EB1000**	**01C1000**	**01C15**	197	2	197	394	1,5	394	591	1	591	787	0,66	787	0,5
	02EB1000	**02C1000**	**02C36**	197	4,2	197	394	3,15	394	591	2,1	591	787	1,39	787	1,05
	03B1000	**03C1000**	**03C63**	197	8,1	197	394	6,08	394	591	4,05	591	787	2,67	787	2,03
260	**01EB260MEX16**	**01C260MEX15**	**01C15EX15**	197	2	197	394	1,5	394	591	1	591	787	0,66	787	0,5
	01EB260MGR15	**01C260MGR12**	**01C15GR13**	197	2	197	394	1,5	394	591	1	591	787	0,66	787	0,5
	01EB260M	**01C260M**	**01C16**	179	2	179	358	1,5	358	537	1	537	716	0,66	716	0,5
	02EB260M	**02C260M**	**02C36EX10**	197	4,2	197	394	3,15	394	591	2,1	591	787	1,39	787	1,05
	02EB260M	**02C260M**	**02C36GR11**	197	4,2	197	394	3,15	394	591	2,1	591	787	1,39	787	1,05
	03B260M	**03C260M**	**03C63EX10**	197	8,1	197	394	6,08	394	591	4,05	591	787	2,67	787	2,03
	03B260M	**03C260M**	**03C63GR10**	197	8,1	197	394	6,08	394	591	4,05	591	787	2,67	787	2,03
270	**01EB270M**	**01C270M**	**01C16**	179	2	179	358	1,5	358	537	1	537	716	0,66	716	0,5
275	**01EB275M**	**01C275M**	**01C16**	179	2	179	358	1,5	358	537	1	537	716	0,66	716	0,5
11	**01EB1100**	**01C1100**	**01C16**	179	2	179	358	1,5	358	537	1	537	716	0,66	716	0,5
	02EB1100	**02C1100**	**02C37**	179	4,8	179	358	3,6	358	537	2,4	537	716	1,58	716	1,2
	03EB1100	**03C1100**	**03EC83**	179	10	179	358	7,5	358	537	5	537	716	3,3	716	2,5
280	**01EB280M**	**01C280M**	**01C16**	179	2	179	358	1,5	358	537	1	537	716	0,66	716	0,5
	02EB280M	**02C280M**	**02C37**	179	4,8	179	358	3,6	358	537	2,4	537	716	1,58	716	1,2
	03EB280M	**03C280M**	**03EC83**	179	10	179	358	7,5	358	537	5	537	716	3,3	716	2,5
290	**01EB290M**	**01C290M**	**01C17**	164	2	164	328	1,5	328	492	1	492	656	0,66	656	0,5
	03B290M	**03C290M**	**03C65**	164	11	164	328	8,25	328	492	5,5	492	656	3,63	656	2,75
300	**01EB300M**	**01C300M**	**01C17**	164	2	164	328	1,5	328	492	1	492	656	0,66	656	0,5
	02EB300M	**02C300M**	**02C38**	164	5,4	164	328	4,05	328	492	2,7	492	656	1,78	656	1,35
	03B300M	**03C300M**	**03C65**	164	11	164	328	8,25	328	492	5,5	492	656	3,63	656	2,75
12	**01EB1200**	**01C1200**	**01C17**	164	2	164	328	1,5	328	492	1	492	656	0,66	656	0,5
	02EB1200	**02C1200**	**02C38**	164	5,4	164	328	4,05	328	492	2,7	492	656	1,78	656	1,35
	03B1200	**03C1200**	**03C65**	164	11	164	328	8,25	328	492	5,5	492	656	3,63	656	2,75

[1)] The values are valid for a typical lithium grease (about 0,85 g/cm³)
[2)] Contact SKF

cont. table 12

Initial grease fill – split cylindrical roller bearings[1)]

Shaft diameter d_a	Designations Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Speed <	Initial fill 100%	Speed > ≤		Initial fill 75%	Speed > ≤		Initial fill 50%	Speed > ≤		Initial fill 33%	Speed >	Initial fill 25%
mm/*in.*				r/min	kg	r/min		kg	r/min		kg	r/min		kg	r/min	kg
320	**01B320M**	**01C320M**	**01C18**	151	2,76	151	303	2,07	303	454	1,38	454	606	0,91	606	0,69
	02B320M	**02C320M**	**02C39**	151	6,6	151	303	4,95	303	454	3,3	454	606	2,18	606	1,65
	03B320M	**03C320M**	**03C66**	151	12	151	303	9	303	454	6	454	606	3,96	606	3
330	**01B330M**	**01C330M**	**01C18**	151	2,76	151	303	2,07	303	454	1,38	454	606	0,91	606	0,69
	02B330M	**02C330M**	**02C39**	151	6,6	151	303	4,95	303	454	3,3	454	606	2,18	606	1,65
13	**01B1300**	**01C1300**	**01C18**	151	2,76	151	303	2,07	303	454	1,38	454	606	0,91	606	0,69
	02B1300	**02C1300**	**02C39**	151	6,6	151	303	4,95	303	454	3,3	454	606	2,18	606	1,65
	03B1300	**03C1300**	**03C66**	151	12	151	303	9	303	454	6	454	606	3,96	606	3
340	**01B340MEX13**	**01C340MEX12**	**01C18EX**	151	2,76	151	303	2,07	303	454	1,38	454	606	0,91	606	0,69
	01B340MGR13	**01C340MGR11**	**01C18GR**	151	2,76	151	303	2,07	303	454	1,38	454	606	0,91	606	0,69
	01B340M	**01C340M**	**01C19**	141	3	141	281	2,25	281	422	1,5	422	562	0,99	562	0,75
	02B340M	**02C340M**	**02C40**	141	7,2	141	281	5,4	281	422	3,6	422	562	2,38	562	1,8
	03EB340M	**03C340M**	**03EC86**	141	15	141	281	11,25	281	422	7,5	422	562	4,95	562	3,75
350	**01B350M**	**01C350M**	**01C19**	141	3	141	281	2,25	281	422	1,5	422	562	0,99	562	0,75
	02B350M	**02C350M**	**02C40**	141	7,2	141	281	5,4	281	422	3,6	422	562	2,38	562	1,8
14	**01B1400**	**01C1400**	**01C19**	141	3	141	281	2,25	281	422	1,5	422	562	0,99	562	0,75
	02B1400	**02C1400**	**02C40**	141	7,2	141	281	5,4	281	422	3,6	422	562	2,38	562	1,8
	03EB1400	**03C1400**	**03EC86**	141	15	141	281	11,25	281	422	7,5	422	562	4,95	562	3,75
360	**01B360MEX15**	**01C360MEX13**	**01C19EX**	141	3	141	281	2,25	281	422	1,5	422	562	0,99	562	0,75
	01B360MGR15	**01C360MGR16**	**01C19GR**	141	3	141	281	2,25	281	422	1,5	422	562	0,99	562	0,75
	01B360M	**01C360M**	**01C20**	131	3	131	262	2,25	262	394	1,5	394	525	0,99	525	0,75
	02B360M	**02C360M**	**02C40**	141	7,2	141	281	5,4	281	422	3,6	422	562	2,38	562	1,8
	03EB360M	**03C360M**	**03EC86**	141	15	141	281	11,25	281	422	7,5	422	562	4,95	562	3,75
380	**01B380M**	**01C380M**	**01C20**	131	3	131	262	2,25	262	394	1,5	394	525	0,99	525	0,75
	02B380M	**02C380M**	**02C41**	131	7,8	131	262	5,85	262	394	3,9	394	525	2,57	525	1,95
	03B380M	**03C380M**	**03C68**	131	16,2	131	262	12,15	262	394	8,1	394	525	5,35	525	4,05
15	**01B1500**	**01C1500**	**01C20**	131	3	131	262	2,25	262	394	1,5	394	525	0,99	525	0,75
	02B1500	**02C1500**	**02C41**	131	7,8	131	262	5,85	262	394	3,9	394	525	2,57	525	1,95
	03B1500	**03C1500**	**03C68**	131	16,2	131	262	12,15	262	394	8,1	394	525	5,35	525	4,05
390	**01B390M**	**01C390M**	**01C21**	123	3,6	123	246	2,7	246	369	1,8	369	492	1,19	492	0,9
400	**01B400M**	**01C400M**	**01C21**	123	3,6	123	246	2,7	246	369	1,8	369	492	1,19	492	0,9
	02B400M	**02C400M**	**02C42**	123	9	123	246	6,75	246	369	4,5	369	492	2,97	492	2,25
	03B400M	**03C400M**	**03C68**	131	16,2	131	262	12,15	262	394	8,1	394	525	5,35	525	4,05
16	**01B1600**	**01C1600**	**01C21**	123	3,6	123	246	2,7	246	369	1,8	369	492	1,19	492	0,9
	02B1600	**02C1600**	**02C42**	123	9	123	246	6,75	246	369	4,5	369	492	2,97	492	2,25
420	**01B420M**	**01C420M**	**01C22**	116	4,2	116	232	3,15	232	347	2,1	347	463	1,39	463	1,05
	02B420M	**02C420M**	**02C43**	116	9,6	116	232	7,2	232	347	4,8	347	463	3,17	463	2,4
	03EB420M	**03C420M**	**03EC89**	116	21,6	116	232	16,2	232	347	10,8	347	463	7,13	463	5,4
17	**01B1700**	**01C1700**	**01C22**	116	4,2	116	232	3,15	232	347	2,1	347	463	1,39	463	1,05
	02B1700	**02C1700**	**02C43**	116	9,6	116	232	7,2	232	347	4,8	347	463	3,17	463	2,4
	03EB1700	**03C1700**	**03EC89**	116	21,6	116	232	16,2	232	347	10,8	347	463	7,13	463	5,4
440	**01B440M**	**01C440M**	**01C23**	109	4,2	109	219	3,15	219	328	2,1	328	437	1,39	437	1,05
	02B440M	**02C440M**	**02C44**	109	9,6	109	219	7,2	219	328	4,8	328	437	3,17	437	2,4
	03EB440M	**03C440M**	**03EC89**	116	21,6	116	232	16,2	232	347	10,8	347	463	7,13	463	5,4
18	**01B1800**	**01C1800**	**01C23**	109	4,2	109	219	3,15	219	328	2,1	328	437	1,39	437	1,05
	02B1800	**02C1800**	**02C44**	109	9,6	109	219	7,2	219	328	4,8	328	437	3,17	437	2,4
	03EB1800	**03C1800**	**03EC90**	109	24,6	109	219	18,45	219	328	12,3	328	437	8,12	437	6,15

[1)] The values are valid for a typical lithium grease (about 0,85 g/cm³)

cont. table 12

Initial grease fill – split cylindrical roller bearings[1)]

Shaft diameter d_a	Designations Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Speed <	Initial fill 100%	Speed > ≤		Initial fill 75%	Speed > ≤		Initial fill 50%	Speed > ≤		Initial fill 33%	Speed >	Initial fill 25%
mm/*in.*				r/min	kg	r/min		kg	r/min		kg	r/min		kg	r/min	kg
460	**01B460M**	**01C460M**	**01C23**	109	4,2	109	219	3,15	219	328	2,1	328	437	1,39	437	1,05
	02B460M	**02C460M**	**02C44**	109	9,6	109	219	7,2	219	328	4,8	328	437	3,17	437	2,4
	03EB460M	**03C460M**	**03EC90**	109	24,6	109	219	18,45	219	328	12,3	328	437	8,12	437	6,15
480	**01B480M**	**01C480M**	**01C24**	104	4,8	104	207	3,6	207	311	2,4	311	414	1,58	414	1,2
	02B480M	**02C480M**	**02C45**	104	10,2	104	207	7,65	207	311	5,1	311	414	3,37	414	2,55
19	**01B1900**	**01C1900**	**01C24**	104	4,8	104	207	3,6	207	311	2,4	311	414	1,58	414	1,2
	02B1900	**02C1900**	**02C45**	104	10,2	104	207	7,65	207	311	5,1	311	414	3,37	414	2,55
500	**01B500M**	**01C500M**	**01C25**	98	4,8	98	197	3,6	197	295	2,4	295	394	1,58	394	1,2
	02B500M	**02C500M**	**02C46**	98	10,8	98	197	8,1	197	295	5,4	295	394	3,56	394	2,7
	03B500M	**03C500M**	**03C94**	98	30	98	197	22,5	197	295	15	295	394	9,9	394	7,5
20	**01B2000**	**01C2000**	**01C25**	98	4,8	98	197	3,6	197	295	2,4	295	394	1,58	394	1,2
	02B2000	**02C2000**	**02C46**	98	10,8	98	197	8,1	197	295	5,4	295	394	3,56	394	2,7
	03B2000	**03C2000**	**03C94**	98	30	98	197	22,5	197	295	15	295	394	9,9	394	7,5
530	**01B530M**	**01C530M**	**01C26**	94	5,4	94	187	4,05	187	281	2,7	281	375	1,78	375	1,35
	02B530M	**02C530M**	**02C47**	94	11,4	94	187	8,55	187	281	5,7	281	375	3,76	375	2,85
	03B530M	**03C530M**	**03C94**	98	30	98	197	22,5	197	295	15	295	394	9,9	394	7,5
21	**01B2100**	**01C2100**	**01C26**	94	5,4	94	187	4,05	187	281	2,7	281	375	1,78	375	1,35
	02B2100	**02C2100**	**02C47**	94	11,4	94	187	8,55	187	281	5,7	281	375	3,76	375	2,85
22	**01B2200**	**01C2200**	**01C27**	89	5,4	89	179	4,05	179	268	2,7	268	358	1,78	358	1,35
	02B2200	**02C2200**	**02C48**	89	11,4	89	179	8,55	179	268	5,7	268	358	3,76	358	2,85
	03EB2200	**03C2200**	**03EC94**	89	36	89	179	27	179	268	18	268	358	11,88	358	9
560	**01B560M**	**01C560M**	**01C27**	89	5,4	89	179	4,05	179	268	2,7	268	358	1,78	358	1,35
	02B560M	**02C560M**	**02C48**	89	11,4	89	179	8,55	179	268	5,7	268	358	3,76	358	2,85
	03EB560M	**03C560M**	**03EC94**	89	36	89	179	27	179	268	18	268	358	11,88	358	9
580	**01B580M**	**01C580M**	**01C28**	86	6	86	171	4,5	171	257	3	257	342	1,98	342	1,5
	02B580M	**02C580M**	**02C49**	86	12,6	86	171	9,45	171	257	6,3	257	342	4,16	342	3,15
23	**01B2300**	**01C2300**	**01C28**	86	6	86	171	4,5	171	257	3	257	342	1,98	342	1,5
	02B2300	**02C2300**	**02C49**	86	12,6	86	171	9,45	171	257	6,3	257	342	4,16	342	3,15
	03EB2300	**03C2300**	**03EC95**	86	38,4	86	171	28,8	171	257	19,2	257	342	12,67	342	9,6
600	**01B600M**	**01C600M**	**01C29**	82	6	82	164	4,5	164	246	3	246	328	1,98	328	1,5
	02B600M	**02C600M**	**02C50**	82	12,6	82	164	9,45	164	246	6,3	246	328	4,16	328	3,15
	03EB600M	**03C600M**	**03EC95**	86	38,4	86	171	28,8	171	257	19,2	257	342	12,67	342	9,6
24	**01B2400**	**01C2400**	**01C29**	82	6	82	164	4,5	164	246	3	246	328	1,98	328	1,5
	02B2400	**02C2400**	**02C50**	82	12,6	82	164	9,45	164	246	6,3	246	328	4,16	328	3,15

[1)] The values are valid for a typical lithium grease (about 0,85 g/cm³)

Table 13

Initial grease fill – split tapered roller bearings[1)]

Shaft diameter	Designations			Speed	Initial fill	Speed		Initial fill	Speed		Initial fill	Speed		Initial fill	Speed	Initial fill
	Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals		100%			75%			50%			33%		25%
d_a				<		>	≤		>	≤		>	≤		>	
mm				r/min	kg	r/min		kg	r/min		kg	r/min		kg	r/min	kg
75	**1DTB75M**	**1DTC75GR75M**	**1DTC75GR30TL**	667	0,19	667	1 333	0,14	1 333	2 000	0,10	2 000	2 667	0,06	2 667	0,05
80	**1DTB80M**	**1DTC80GR80M**	**1DTC80GR35TL**	625	0,23	625	1 250	0,17	1 250	1 875	0,12	1 875	2 500	0,08	2 500	0,06
90	**1DTB90M**	**1DTC90GR90M**	**1DTC90GR35TL**	556	0,25	556	1 111	0,19	1 111	1 667	0,12	1 667	2 222	0,08	2 222	0,06
100	**1DTB100M**	**1DTC100GR100M**	**1DTC100GR40TL**	500	0,41	500	1 000	0,31	1 000	1 500	0,20	1 500	2 000	0,13	2 000	0,10
110	**1DTB110M**	**1DTC110GR110M**	**1DTC110GR45TL**	455	0,44	455	909	0,33	909	1 364	0,22	1 364	1 818	0,14	1 818	0,11
120	**1DTB120M**	**1DTC120GR120M**	**1DTC120GR50TL**	417	0,50	417	833	0,38	833	1 250	0,25	1 250	1 667	0,17	1 667	0,13
130	**1DTB130M**	**1DTC140GR130M**	**1DTC140GR50TL**	357	0,65	357	714	0,48	714	1 071	0,32	1 071	1 429	0,21	1 429	0,16
140	**1DTB140M**	**1DTC140GR140M**	**1DTC140GR55TL**	357	0,65	357	714	0,48	714	1 071	0,32	1 071	1 429	0,21	1 429	0,16
150	**1DTB150M**	**1DTC160GR150M**	**1DTC160GR60TL**	313	0,63	313	625	0,47	625	938	0,32	938	1 250	0,21	1 250	0,16
160	**1DTB160M**	**1DTC160GR160M**	**1DTC160GR65TL**	313	0,63	313	625	0,47	625	938	0,32	938	1 250	0,21	1 250	0,16
180	**1DTB180M**	**1DTC180GR180M**	**1DTC180GR70TL**	278	0,77	278	556	0,58	556	833	0,39	833	1 111	0,25	1 111	0,19

[1)] The values are valid for a typical lithium grease (about 0,85 g/cm³)

Relubrication

For split cylindrical roller bearings, use the shortest relubrication interval to which one or more of the conditions in **table 14** apply. For applications with 100% initial grease fill, use a relubrication interval of 400 hours regardless of the environment. If operating conditions fall outside those listed, contact SKF.

The amount of grease required is provided in **table 15, pages 35 to 41**.

For split tapered roller bearings, relubricate weekly or every 150 hours of operation:

- $d_a \leq 120$ mm: 2 ml grease
- $d_a > 120$ mm: 4 ml grease

NOTE: 2 ml grease is approximately equal to one shot from a conventional side-lever grease gun.

Automatic lubrication systems should be metered to deliver grease at an average rate equivalent to the relubrication period specified. SKF recommends relubricating while the bearing is rotating to help distribute the grease but only if it is safe to do so.

Table 14

Relubrication interval – split cylindrical roller bearings

Relubrication interval	Operating conditions		
	Temperature	Speed d_n[1)]	Environment
hours	°C *(°F)*	mm	–
100	80 to 175 *(175 to 345)*	200 000 to 300 000[2)]	very dirty
200	60 to 80 *(140 to 175)*	100 000 to 200 000	dusty/splashed
400[3)]	< 60 *(< 140)*	< 100 000	clean/dry

[1)] Speed factor d_n [mm] = bearing bore [mm] x rotational speed [r/min]
[2)] Or up to the maximum for 100 series bearings
[3)] For bearings with 100% initial grease fill in applications with no axial load, this may be extended over 400 hours. Please contact SKF for support.

Excessive quantities of lubricant should not be used, particularly at high speeds, as this may result in excessive churning and overheating.

Table 15

Relubrication quantity – split cylindrical roller bearings

Shaft diameter d_a	Designations Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Relubrication quantity[1]
mm/*in.*	–			ml
1 3/16	01EB103	–	01C1	4
1 1/4	01EB104	–	01C1	4
35	01EB35M	–	01C1	4
1 7/16	01EB107	–	01C1	4
1 1/2	01EB108	01C108	01C1	4
40	01EB40M	01C40M	01C1	4
1 11/16	01EB111	01C111	01C2	4
1 3/4	01EB112	01C112	01C2	4
45	01EB45M	01C45M	01C2	4
1 15/16	01EB115 02EB115	01C115 02C115	01C2 02C3	4 4
50	01EB50M 02EB50M	01C50M 02C50M	01C2 02C3	4 4
2	01EB200 02EB200	01C200 02C200	01C2 02C3	4 4
55	01EB55M	01C55M	01C3	4
2 3/16	01EB203 02EB203	01C203 02C203	01C3 02C4	4 4
2 1/4	01EB204 02EB204	01C204 02C204	01C3 02C4	4 4
60	01EB60M 02EB60M	01C60M 02C60M	01C3 02C4	4 4
2 7/16	01EB207 02EB207	01C207 02C207	01C3 02C4	4 4
2 1/2	01EB208 02EB208	01C208 02C208	01C3 02C4	4 4
65	01EB65M 02EB65M	01C65M 02C65M	01C3 02C4	4 4
2 11/16	01EB211 02EB211	01C211 02C211	01C4 02C5	4 4
2 3/4	01EB212 02EB212	01C212 02C212	01C4 02C5	4 4

[1] 2 ml grease is approximately equal to one shot from a conventional side-lever grease gun.

cont. table 15

Relubrication quantity – split cylindrical roller bearings

Shaft diameter	Designations			Relubrication quantity[1]
	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	
d_a				
mm/*in.*	–			ml
70	**01EB70M**	**01C70M**	**01C4**	4
	02EB70M	**02C70M**	**02C5**	4
2 15/16	**100B215**	**100C215**	**100C3**	1[2]
	01EB215	**01C215**	**01C4**	4
	02EB215	**02C215**	**02C5**	4
75	**100B75M**	**100C75M**	**100C3**	1[2]
	01EB75M	**01C75M**	**01C4**	4
	02EB75M	**02C75M**	**02C5**	4
3	**100B300**	**100C300**	**100C3**	1[2]
	01EB300	**01C300**	**01C4**	4
	02EB300	**02C300**	**02C5**	4
80	**01EB80M**	**01C80M**	**01C5**	4
	02EB80M	**02C80M**	**02C6**	4
3 3/16	**01EB303**	**01C303**	**01C5**	4
	02EB303	**02C303**	**02C6**	4
3 1/4	**01EB304**	**01C304**	**01C5**	4
	02EB304	**02C304**	**02C6**	4
85	**100B85M**	**100C85M**	**100C4**	1[2]
	01EB85M	**01C85M**	**01C5**	4
	02EB85M	**02C85M**	**02C6**	4
3 7/16	**100B307**	**100C307**	**100C4**	1[2]
	01EB307	**01C307**	**01C5**	4
	02EB307	**02C307**	**02C6**	4
3 1/2	**01EB308**	**01C308**	**01C5**	4
	02EB308	**02C308**	**02C6**	4
90	**01EB90M**	**01C90M**	**01C5**	4
	02EB90M	**02C90M**	**02C6**	4
3 11/16	**01EB311**	**01C311**	**01C6**	4
	02EB311	**02C311**	**02C7**	4
95	**01EB95M**	**01C95M**	**01C6**	4
3 3/4	**01EB312**	**01C312**	**01C6**	4
	02EB312	**02C312**	**02C7**	4
100	**100B100M**	**100C100M**	**100C5**	2
	01EB100M	**01C100M**	**01C6**	4
	02EB100M	**02C100M**	**02C7**	4
	03B100M	**03C100M**	**03C54**	4
3 15/16	**100B315**	**100C315**	**100C5**	2
	01EB315	**01C315**	**01C6**	4
	02EB315	**02C315**	**02C7**	4
	03B315	**03C315**	**03C54**	4
4	**100B400**	**100C400**	**100C5**	2
	01EB400	**01C400**	**01C6**	4
	02EB400	**02C400**	**02C7**	4
	03B400	**03C400**	**03C54**	4
105	**01EB105M**	**01C105M**	**01C6**	4
	02EB105M	**02C105M**	**02C7**	4

1) 2 ml grease is approximately equal to one shot from a conventional side-lever grease gun.
2) May be increased to 2 ml if the speed is less than 100 000 d_n or up to 200 000 d_n if operating temperature is less than 80 °C *(175 °F)*.

cont. table 15

Relubrication quantity – split cylindrical roller bearings

Shaft diameter d_a	Designations Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Relubrication quantity[1]
mm/*in.*	–			ml
4 3/16	01EB403	01C403	01C7	4
	02EB403	02C403	02C8	4
110	100B110M	100C110M	100C6	2
	01EB110M	01C110M	01C7	4
	02EB110M	02C110M	02C8	4
	03B110M	03C110M	03C55	4
4 7/16	100B407	100C407	100C6	2
	01EB407	01C407	01C7	4
	02EB407	02C407	02C8	4
	03B407	03C407	03C55	4
4 1/2	100B408	100C408	100C6	2
	01EB408	01C408	01C7	4
	02EB408	02C408	02C8	4
	03B408	03C408	03C55	4
115	100B115M	100C115M	100C6	2
	01EB115M	01C115M	01C7	4
	02EB115M	02C115M	02C8	4
120	100B120M	100C120M	100C7	4
	01EB120M	01C120M	01C8	4
	02EB120M	02C120M	02C10	4
	03B120M	03C120M	03C55	4
125	100B125M	100C125M	100C7	4
	01EB125M	01C125M	01C8	4
	02EB125M	02C125M	02C10	4
4 15/16	100B415	100C415	100C7	4
	01EB415	01C415	01C8	4
	02EB415	02C415	02C10	4
	03B415	03C415	03C56	4
5	100B500	100C500	100C7	4
	01EB500	01C500	01C8	4
	02EB500	02C500	02C10	4
	03B500	03C500	03C56	4
130	100B130M	100C130M	100C7	4
	01EB130M	01C130M	01C8	4
	0E2B130M	02C130M	02C10	4
	03B130M	03C130M	03C56	4
5 3/16	01EB503	01C503	01C9	4
	02EB503	02C503	02C30	4
135	01EB135M	01C135M	01C9	4
5 7/16	100B507	100C507	100C8	4
	01EB507	01C507	01C9	4
	02EB507	02C507	02C30	4
	03B507	03C507	03C57	8
5 1/2	100B508	100C508	100C8	4
	01EB508	01C508	01C9	4
	02EB508	02C508	02C30	4
	03B508	03C508	03C57	8
140	100B140M	100C140M	100C8	4
	01EB140M	01C140M	01C9	4
	02EB140M	02C140M	02C30	4
	03B140M	03C140M	03C57	8

[1] 2 ml grease is approximately equal to one shot from a conventional side-lever grease gun.

cont. table 15

Relubrication quantity – split cylindrical roller bearings

Shaft diameter	Designations			Relubrication quantity[1]
	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	
d_a				
mm/*in.*	–			ml
145	**02EB145M**	**02C145M**	**02C30**	4
150	**100B150M**	**100C150M**	**100C9**	4
	01EB150M	**01C150M**	**01C10**	4
	0E2B150M	**02C150M**	**02C31**	4
	03B150M	**03C150M**	**03C58**	8
5 15/16	**100B515**	**100C515**	**100C9**	4
	01EB515	**01C515**	**01C10**	4
	02EB515	**02C515**	**02C31**	4
	03B515	**03C515**	**03C58**	8
6	**100B508**	**100C600**	**100C9**	4
	01EB600	**01C600**	**01C10**	4
	02EB600	**02C600**	**02C31**	4
	03B600	**03C600**	**03C58**	8
155	**01EB155M**	**01C155M**	**01C10**	4
	02EB155M	**02C155M**	**02C31**	4
160	**01EB160MEX10**	**01C160MEX14**	**01C10EX10**	4
	01EB160MGR10	**01C160MGR10**	**01C10GR10**	4
	01EB160M	**01C160M**	**01C11**	4
	02EB160MEX10	**02C160MEX10**	**02C31EX10**	4
	02EB160MGR10	**02C160MGR10**	**02C31GR10**	4
	02EB160M	**02C160M**	**02C32**	8
	03B160M	**03C160M**	**03C59**	8
6 7/16	**01EB607**	**01C607**	**01C11**	4
	02EB607	**02C607**	**02C32**	8
	03B607	**03C607**	**03C59**	8
6 1/2	**01EB608**	**01C608**	**01C11**	4
	02EB608	**02C608**	**02C32**	8
	03B608	**03C608**	**03C59**	8
170	**01EB170MEX13**	**01C170MEX13**	**01C11EX10**	4
	01EB170MGR14	**01C170MGR15**	**01C11GR10**	4
	01EB170M	**01C170M**	**01C12**	4
	02EB170M	**02C170M**	**02C32EX10**	8
	02EB170M	**02C170M**	**02C32GR10**	8
	03B170M	**03C170M**	**03C59**	8
175	**01EB175M**	**01C175M**	**01C12**	4
	02EB175M	**02C175M**	**02C33**	8
6 15/16	**01EB615**	**01C615**	**01C12**	4
	02EB615	**02C615**	**02C33**	8
	03B615	**03C615**	**03C60**	8
7	**01EB700**	**01C700**	**01C12**	4
	02EB700	**02C700**	**02C33**	8
	03B700	**03C700**	**03C60**	8
180	**01EB180M**	**01C180M**	**01C12**	4
	02EB180M	**02C180M**	**02C33**	8
	03B180M	**03C180M**	**03C60**	8
190	**01EB190M**	**01C190M**	**01C13**	4
	02EB190M	**02C190M**	**02C34**	8
	03B190M	**03C190M**	**03C61**	16

[1] 2 ml grease is approximately equal to one shot from a conventional side-lever grease gun.
[2] Contact SKF.

cont. table 15

Relubrication quantity – split cylindrical roller bearings

Shaft diameter d_a	Designations Bearing	Cartridge with felt / grease groove seals	Cartridge for labyrinth seals	Relubrication quantity[1]
mm/*in.*	–			ml
200	100B200M	100C200M	[2]	4
	01EB200M	01C200M	01C13	4
	02EB200M	02C200M	02C34	8
	03B200M	03C200M	03C61	16
7 15/16	100B715	100C200M	[2]	4
	01EB715	01C715	01C13	4
	02EB715	02C715	02C34	8
	03B715	03C715	03C61	16
8	100B800	100C200M	[2]	4
	01EB800	01C800	01C13	4
	02EB800	02C800	02C34	8
	03B800	03C800	03C61	16
220	100B220M	100C220M	[2]	4
	01EB220M	01C220M	01C14	4
	02EB220M	02C220M	02C35	8
	03B220M	03C220M	03C62	16
9	01EB900	01C900	01C14	4
	02EB900	02C900	02C35	8
	03B900	03C900	03C62	16
230	01EB230M	01C230M	01C14	4
	02EB230M	02C230M	02C35	8
240	01EB240M	01C240M	01C15	8
	02EB240M	02C240M	02C36	8
	03B240M	03C240M	03C63	16
250	01EB250M	01C250M	01C15	8
	02EB250M	02C250M	02C36	8
	03B250M	03C250M	03C63	16
10	01EB1000	01C1000	01C15	8
	02EB1000	02C1000	02C36	8
	03B1000	03C1000	03C63	16
260	01EB260MEX16	01C260MEX15	01C15EX15	8
	01EB260MGR15	01C260MGR12	01C15GR13	8
	01EB260M	01C260M	01C16	8
	02EB260M	02C260M	02C36EX10	8
	02EB260M	02C260M	02C36GR11	8
	03B260M	03C260M	03C63EX10	16
	03B260M	03C260M	03C63GR10	16
270	01EB270M	01C270M	01C16	8
275	01EB275M	01C275M	01C16	8
11	01EB1100	01C1100	01C16	8
	02EB1100	02C1100	02C37	16
	03EB1100	03EC1100	03EC83	16
280	01EB280M	01C280M	01C16	8
	02EB280M	02C280M	02C37	16
	03EB280M	03EC280M	03EC83	16
290	01EB290M	01C290M	01C17	8
	03B290M	03C290M	03C65	16
300	01EB300M	01C300M	01C17	8
	02EB300M	02C300M	02C38	16
	03B300M	03C300M	03C65	16

[1] 2 ml grease is approximately equal to one shot from a conventional side-lever grease gun.
[2] Contact SKF.

cont. table 15

Relubrication quantity – split cylindrical roller bearings

Shaft diameter	Designations			Relubrication quantity[1]
	Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals	
d_a				
mm/*in.*	–			ml
12	**01EB1200**	**01C1200**	**01C17**	8
	02EB1200	**02C1200**	**02C38**	16
	03B1200	**03C1200**	**03C65**	16
320	**01B320M**	**01C320M**	**01C18**	8
	02B320M	**02C320M**	**02C39**	16
	03B320M	**03C320M**	**03C66**	24
330	**01B330M**	**01C330M**	**01C18**	8
	02B330M	**02C330M**	**02C39**	16
13	**01B1300**	**01C1300**	**01C18**	8
	02B1300	**02C1300**	**02C39**	16
	03B1300	**03C1300**	**03C66**	24
340	**01B340MEX13**	**01C340MEX12**	**01C18EX**	8
	01B340MGR13	**01C340MGR11**	**01C18GR**	8
	01B340M	**01C340M**	**01C19**	8
	02B340M	**02C340M**	**02C40**	16
	03EB340M	**03EC340M**	**03EC86**	24
350	**01B350M**	**01C350M**	**01C19**	8
	02B350M	**02C350M**	**02C40**	16
14	**01B1400**	**01C1400**	**01C19**	8
	02B1400	**02C1400**	**02C40**	16
	03EB1400	**03EC1400**	**03EC86**	24
360	**01B360MEX15**	**01C360MEX13**	**01C19EX**	8
	01B360MGR15	**01C360MGR16**	**01C19GR**	8
	01B360M	**01C360M**	**01C20**	8
	02B360M	**02C360M**	**02C40**	16
	03EB360M	**03EC360M**	**03EC86**	24
380	**01B380M**	**01C380M**	**01C20**	8
	02B380M	**02C380M**	**02C41**	16
	03B380M	**03C380M**	**03C68**	24
15	**01B1500**	**01C1500**	**01C20**	8
	02B1500	**02C1500**	**02C41**	16
	03B1500	**03C1500**	**03C68**	24
390	**01B390M**	**01C390M**	**01C21**	16
400	**01B400M**	**01C400M**	**01C21**	16
	02B400M	**02C400M**	**02C42**	16
	03B400M	**03C400M**	**03C68**	24
16	**01B1600**	**01C1600**	**01C21**	16
	02B1600	**02C1600**	**02C42**	16
420	**01B420M**	**01C420M**	**01C22**	16
	02B420M	**02C420 M**	**02C43**	16
	03EB420M	**03EC420M**	**03EC89**	24
17	**01B1700**	**01C1700**	**01C22**	16
	02B1700	**02C1700**	**02C43**	16
	03EB1700	**03EC1700**	**03EC89**	24
440	**01B440M**	**01C440M**	**01C23**	16
	02B440M	**02C440M**	**02C44**	24
	03EB440M	**03EC440M**	**03EC89**	32
18	**01B1800**	**01C1800**	**01C23**	16
	02B1800	**02C1800**	**02C44**	24
	03EB1800	**03EC1800**	**03EC90**	32

[1] 2 ml grease is approximately equal to one shot from a conventional side-lever grease gun.

cont. table 15

Relubrication quantity – split cylindrical roller bearings

Shaft diameter	Designations			Relubrication quantity[1]
	Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals	
d_a				
mm/*in.*	–			ml
460	01B460M	01C460M	01C23	16
	02B460M	02C460M	02C44	24
	03EB460M	03EC460M	03EC90	32
480	01B480M	01C480M	01C24	16
	02B480M	02C480M	02C45	24
19	01B1900	01C1900	01C24	16
	02B1900	02C1900	02C45	24
500	01B500M	01C500M	01C25	16
	02B500M	02C500M	02C46	24
	03B500M	03C500M	03C94	32
20	01B2000	01C2000	01C25	16
	02B2000	02C2000	02C46	24
	03B2000	03C2000	03C94	32
530	01B530M	01C530M	01C26	16
	02B530M	02C530M	02C47	24
	03B530M	03C530M	03C94	32
21	01B2100	01C2100	01C26	16
	02B2100	02C2100	02C47	24
22	01B2200	01C2200	01C27	16
	02B2200	02C2200	02C48	24
	03EB2200	03EC2200	03EC94	32
560	01B560M	01C560M	01C27	16
	02B560M	02C560M	02C48	24
	03EB560M	03EC560M	03EC94	32
580	01B580M	01C580M	01C28	16
	02B580M	02C580M	02C49	24
23	01B2300	01C2300	01C28	16
	02B2300	02C2300	02C49	24
	03EB2300	03EC2300	03EC95	32
600	01B600M	01C600M	01C29	16
	02B600M	02C600M	02C50	24
	03EB600M	03EC600M	03EC95	32
24	01B2400	01C2400	01C29	16
	02B2400	02C2400	02C50	24

[1] 2 ml grease is approximately equal to one shot from a conventional side-lever grease gun.

Vibration frequencies

Vibration frequencies are shown in:

- **table 16**, **pages 42 to 48** for split cylindrical roller bearings
- **table 17**, **page 48** for split tapered roller bearings

Table 16

Frequencies – split cylindrical roller bearings

Shaft diameter	Designation	Part frequencies, per shaft revolution				Roller details		
	Bearing	Outer ring	Inner ring	Cage	Rollers	PCD	Qty	Diameter
mm/*in.*	–	1/rev				mm	–	mm
1 3/16	**01EB103**	4,051	5,949	0,405	2,538	62,71	10	11,91
1 1/4	**01EB104**	4,051	5,949	0,405	2,538	62,71	10	11,91
35	**01EB35M**	4,051	5,949	0,405	2,538	62,71	10	11,91
1 7/16	**01EB107**	4,051	5,949	0,405	2,538	62,71	10	11,91
1 1/2	**01EB108**	4,051	5,949	0,405	2,538	62,71	10	11,91
40	**01EB40M**	4,051	5,949	0,405	2,538	62,71	10	11,91
1 11/16	**01EB111**	4,980	7,020	0,415	2,857	76,5	12	13
1 3/4	**01EB112**	4,980	7,020	0,415	2,857	76,5	12	13
45	**01EB45M**	4,980	7,020	0,415	2,857	76,5	12	13
1 15/16	**01EB115**	4,980	7,020	0,415	2,857	76,5	12	13
	02EB115	4,020	5,980	0,402	2,452	80,96	10	15,88
50	**01EB50M**	4,980	7,020	0,415	2,857	76,5	12	13
	02EB50M	4,020	5,980	0,402	2,452	80,96	10	15,88
2	**01EB200**	4,980	7,020	0,415	2,857	76,5	12	13
	02EB200	4,020	5,980	0,402	2,452	80,96	10	15,88
55	**01EB55M**	5,840	8,160	0,417	2,934	90,5	14	15
2 3/16	**01EB203**	5,840	8,160	0,417	2,934	90,5	14	15
	02EB203	4,936	7,064	0,411	2,730	98,43	12	17,46
2 1/4	**01EB204**	5,840	8,160	0,417	2,934	90,5	14	15
	02EB204	4,936	7,064	0,411	2,730	98,43	12	17,46
60	**01EB60M**	5,840	8,160	0,417	2,934	90,5	14	15
	02EB60M	4,936	7,064	0,411	2,730	98,43	12	17,46
2 7/16	**01EB207**	5,840	8,160	0,417	2,934	90,5	14	15
	02EB207	4,936	7,064	0,411	2,730	98,43	12	17,46
2 1/2	**01EB208**	5,840	8,160	0,417	2,934	90,5	14	15
	02EB208	4,936	7,064	0,411	2,730	98,43	12	17,46
65	**01EB65M**	5,840	8,160	0,417	2,934	90,5	14	15
	02EB65M	4,936	7,064	0,411	2,730	98,43	12	17,46
2 11/16	**01EB211**	5,883	8,117	0,42	3,053	106,5	14	17
	02EB211	4,932	7,068	0,411	2,719	115,89	12	20,64
2 3/4	**01EB212**	5,883	8,117	0,42	3,053	106,5	14	17
	02EB212	4,932	7,068	0,411	2,719	115,89	12	20,64

cont. table 16

Frequencies – split cylindrical roller bearings

Shaft diameter	Designation Bearing	Part frequencies, per shaft revolution Outer ring	Inner ring	Cage	Rollers	Roller details PCD	Qty	Diameter
mm/*in.*	–	1/rev				mm	–	mm
70	**01B70M**	5,883	8,117	0,42	3,053	106,5	14	17
	02EB70M	4,932	7,068	0,411	2,719	115,89	12	20,64
2 15/16	**100B215**	8,953	11,047	0,448	4,723	95,5	20	10
	01EB215	5,883	8,117	0,42	3,053	106,5	14	17
	02EB215	4,932	7,068	0,411	2,719	115,89	12	20,64
75	**100B75M**	8,953	11,047	0,448	4,723	95,5	20	10
	01B75M	5,883	8,117	0,42	3,053	106,5	14	17
	02EB75M	4,932	7,068	0,411	2,719	115,89	12	20,64
3	**100B300**	8,953	11,047	0,448	4,723	95,5	20	10
	01EB300	5,883	8,117	0,42	3,053	106,5	14	17
	02EB300	4,932	7,068	0,411	2,719	115,89	12	20,64
80	**01EB80M**	6,774	9,226	0,423	3,187	124	16	19
	02EB80M	5,833	8,167	0,417	2,917	133,35	14	22,23
3 3/16	**01EB303**	5,833	8,167	0,417	2,917	133,35	14	22,23
	02EB303	6,774	9,226	0,423	3,187	124	16	19
3 1/4	**01EB304**	6,774	9,226	0,423	3,187	124	16	19
	02EB304	5,833	8,167	0,417	2,917	133,35	14	22,23
85	**100B85M**	8,924	11,076	0,446	4,592	111,5	20	12
	01EB85M	6,774	9,226	0,423	3,187	124	16	19
	02EB85M	5,833	8,167	0,417	2,917	133,35	14	22,23
3 7/16	**100B307**	8,924	11,076	0,446	4,592	111,5	20	12
	01EB307	6,774	9,226	0,423	3,187	124	16	19
	02EB307	5,833	8,167	0,417	2,917	133,35	14	22,23
3 1/2	**01EB308**	5,833	8,167	0,417	2,917	133,35	14	22,23
	02EB308	6,774	9,226	0,423	3,187	124	16	19
90	**01EB90M**	6,774	9,226	0,423	3,187	124	16	19
	02EB90M	5,833	8,167	0,417	2,917	133,35	14	22,23
3 11/16	**01EB311**	6,756	9,244	0,422	3,138	141,5	16	22
	02EB311	5,833	8,167	0,417	2,917	152,4	14	25,4
95	**01EB95M**	6,756	9,244	0,422	3,138	141,5	16	22
3 3/14	**01EB312**	6,756	9,244	0,422	3,138	141,5	16	22
	02EB312	5,833	8,167	0,417	2,917	152,4	14	25,4
100	**100B100M**	8,915	11,085	0,446	4,553	129	20	14
	01EB100M	6,756	9,244	0,422	3,138	141,5	16	22
	02EB100M	5,833	8,167	0,417	2,917	152,4	14	25,4
	03B100M	3,839	6,161	0,384	2,038	177,8	10	41,28
3 15/16	**100B315**	8,915	11,085	0,446	4,553	129	20	14
	01EB315	6,756	9,244	0,422	3,138	141,5	16	22
	02EB315	5,833	8,167	0,417	2,917	152,4	14	25,4
	03B315	3,839	6,161	0,384	2,038	177,8	10	41,28
4	**100B400**	8,915	11,085	0,446	4,553	129	20	14
	01EB400	6,756	9,244	0,422	3,138	141,5	16	22
	02EB400	5,833	8,167	0,417	2,917	152,4	14	25,4
	03B400	3,839	6,161	0,384	2,038	177,8	10	41,28
105	**01EB105M**	6,756	9,244	0,422	3,138	141,5	16	22
	02EB105M	5,833	8,167	0,417	2,917	152,4	14	25,4
4 3/16	**01B403**	6,880	9,120	0,43	3,501	158,75	16	22,23
	02B403	5,833	8,167	0,417	2,917	171,45	14	28,58

cont. table 16

Frequencies – split cylindrical roller bearings

Shaft diameter	Designation Bearing	Part frequencies, per shaft revolution Outer ring	Inner ring	Cage	Rollers	Roller details PCD	Qty	Diameter
mm/*in.*	–	1/rev				mm	–	mm
110	**100B110M**	8,840	11,160	0,442	4,251	146,5	20	17
	01EB110M	6,880	9,120	0,43	3,501	158,75	16	22,23
	02EB110M	5,833	8,167	0,417	2,917	171,45	14	28,58
	03B110M	3,917	6,083	0,392	2,199	190,5	10	41,28
4 7/16	**100B407**	8,840	11,160	0,442	4,251	146,5	20	17
	01EB407	6,880	9,120	0,43	3,501	158,75	16	22,23
	02EB407	5,833	8,167	0,417	2,917	171,45	14	28,58
	03B407	3,917	6,083	0,392	2,199	190,5	10	41,28
4 1/2	**100B408**	8,840	11,160	0,442	4,251	146,5	20	17
	01EB408	6,880	9,120	0,43	3,501	158,75	16	22,23
	02EB408	5,833	8,167	0,417	2,917	171,45	14	28,58
	03B408	3,917	6,083	0,392	2,199	190,5	10	41,28
115	**100B115M**	8,840	11,160	0,442	4,251	146,5	20	17
	01EB115M	6,880	9,120	0,43	3,501	158,75	16	22,23
	02EB115M	5,833	8,167	0,417	2,917	171,45	14	28,58
120	**100B120M**	8,932	11,068	0,447	4,627	163,46	20	17,46
	01EB120M	6,909	9,091	0,432	3,599	174,63	16	23,81
	02EB120M	5,833	8,167	0,417	2,917	190,5	14	31,75
	03B120M	3,917	6,083	0,392	2,199	190,5	10	41,28
125	**100B125M**	8,932	11,068	0,447	4,627	163,46	20	17,46
	01EB125M	6,909	9,091	0,432	3,599	174,63	16	23,81
	02EB125M	5,833	8,167	0,417	2,917	190,5	14	31,75
4 15/16	**100B415**	8,932	11,068	0,447	4,627	163,46	20	17,46
	01EB415	6,909	9,091	0,432	3,599	174,63	16	23,81
	02EB415	5,833	8,167	0,417	2,917	190,5	14	31,75
	03B415	4,781	7,219	0,398	2,360	203,2	12	41,28
5	**100B500**	8,932	11,068	0,447	4,627	163,46	20	17,46
	01EB500	6,909	9,091	0,432	3,599	174,63	16	23,81
	02EB500	5,833	8,167	0,417	2,917	190,5	14	31,75
	03B500	4,781	7,219	0,398	2,360	203,2	12	41,28
130	**100B130M**	8,932	11,068	0,447	4,627	163,46	20	17,46
	01EB130M	6,909	9,091	0,432	3,599	174,63	16	23,81
	02EB130M	5,833	8,167	0,417	2,917	190,5	14	31,75
	03B130M	4,781	7,219	0,398	2,360	203,2	12	41,28
5 3/16	**01EB503**	6,933	9,067	0,433	3,683	190,5	16	25,4
	02EB503	5,869	8,131	0,419	3,014	206,38	14	33,34
135	**01B135M**	6,933	9,067	0,433	3,683	190,5	16	25,4
5 7/16	**100B507**	8,938	11,062	0,447	4,654	179,33	20	19,05
	01EB507	6,933	9,067	0,433	3,683	190,5	16	25,4
	02EB507	5,869	8,131	0,419	3,014	206,38	14	33,34
	03B507	4,714	7,286	0,393	2,226	222,25	12	47,63
5 1/2	**100B508**	8,938	11,062	0,447	4,654	179,33	20	19,05
	01EB508	6,933	9,067	0,433	3,683	190,5	16	25,4
	02EB508	5,869	8,131	0,419	3,014	206,38	14	33,34
	03B508	4,714	7,286	0,393	2,226	222,25	12	47,63
140	**100B140M**	8,938	11,062	0,447	4,654	179,33	20	19,05
	01EB140M	6,933	9,067	0,433	3,683	190,5	16	25,4
	02EB140M	5,869	8,131	0,419	3,014	206,38	14	33,34
	03B140M	4,714	7,286	0,393	2,226	222,25	12	47,63
145	**02EB145M**	5,869	8,131	0,419	3,014	206,38	14	33,34
150	**100B150M**	8,852	11,148	0,443	4,300	193,68	20	22,23
	01EB150M	7,875	10,125	0,438	3,938	203,2	18	25,4
	02EB150M	6,743	9,257	0,421	3,103	222,25	16	34,93
	03B150M	4,737	7,263	0,395	2,270	241,3	12	50,8

cont. table 16

Frequencies – split cylindrical roller bearings

Shaft diameter	Designation Bearing	Part frequencies, per shaft revolution Outer ring	Inner ring	Cage	Rollers	Roller details PCD	Qty	Diameter
mm/*in.*	–	1/rev				mm	–	mm
5 15/16	**100B515**	8,852	11,148	0,443	4,300	193,68	20	22,23
	01EB515	7,875	10,125	0,438	3,938	203,2	18	25,4
	02EB515	6,743	9,257	0,421	3,103	222,25	16	34,93
	03B515	4,737	7,263	0,395	2,270	241,3	12	50,8
6	**100B508**	8,852	11,148	0,443	4,300	193,68	20	22,23
	01EB600	7,875	10,125	0,438	3,938	203,2	18	25,4
	02EB600	6,743	9,257	0,421	3,103	222,25	16	34,93
	03B600	4,737	7,263	0,395	2,270	241,3	12	50,8
155	**01EB155M**	7,875	10,125	0,438	3,938	203,2	18	25,4
	02EB155M	6,743	9,257	0,421	3,103	222,25	16	34,93
160	**01EB160MEX10**	7,875	10,125	0,438	3,938	203,2	18	25,4
	01EB160MGR10	7,875	10,125	0,438	3,938	203,2	18	25,4
	01EB160M	7,784	10,216	0,432	3,632	222	18	30
	02EB160MEX10	6,743	9,257	0,421	3,103	222,25	16	34,93
	02EB160MGR10	6,743	9,257	0,421	3,103	222,25	16	34,93
	02EB160M	6,739	9,261	0,421	3,092	241	16	38
	03B160M	5,720	8,280	0,409	2,642	260,35	14	47,63
6 7/16	**01EB607**	7,784	10,216	0,432	3,632	222	18	30
	02EB607	6,739	9,261	0,421	3,092	241	16	38
	03B607	5,720	8,280	0,409	2,642	260,35	14	47,63
6 1/2	**01EB608**	7,784	10,216	0,432	3,632	222	18	30
	02EB608	6,739	9,261	0,421	3,092	241	16	38
	03B608	5,720	8,280	0,409	2,642	260,35	14	47,63
170	**01EB170MEX13**	7,784	10,216	0,432	3,632	222	18	30
	01EB170MGR14	7,784	10,216	0,432	3,632	222	18	30
	01EB170M	8,796	11,204	0,440	4,092	232,5	20	28
	02EB170M	6,739	9,261	0,421	3,092	241	16	38
	03B170M	5,720	8,280	0,409	2,642	260,35	14	47,63
175	**01EB175M**	8,796	11,204	0,440	4,092	232,5	20	28
	02EB175M	6,769	9,231	0,423	3,173	260	16	40
6 15/16	**01EB615**	8,796	11,204	0,440	4,092	232,5	20	28
	02EB615	6,769	9,231	0,423	3,173	260	16	40
	03B615	5,753	8,247	0,411	2,717	276,23	14	49,21
7	**01EB700**	8,796	11,204	0,440	4,092	232,5	20	28
	02EB700	6,769	9,231	0,423	3,173	260	16	40
	03B700	5,753	8,247	0,411	2,717	276,23	14	49,21
180	**01EB180M**	8,796	11,204	0,440	4,092	232,5	20	28
	02EB180M	6,769	9,231	0,423	3,173	260	16	40
	03B180M	5,753	8,247	0,411	2,717	276,23	14	49,21
190	**01EB190M**	9,722	12,278	0,442	4,246	258,25	22	30
	02EB190M	6,735	9,265	0,421	3,082	284,5	16	45
	03B190M	5,786	8,214	0,413	2,796	311,15	14	53,98
200	**100B200M**	12,936	15,064	0,462	6,541	250	28	19
	01EB200M	9,722	12,278	0,442	4,246	258,25	22	30
	02EB200M	6,735	9,265	0,421	3,082	284,5	16	45
	03B200M	5,786	8,214	0,413	2,796	311,15	14	53,98
7 15/16	**100B715**	12,936	15,064	0,462	6,541	250	28	19
	01EB715	9,722	12,278	0,442	4,246	258,25	22	30
	02EB715	6,735	9,265	0,421	3,082	284,5	16	45
	03B715	5,786	8,214	0,413	2,796	311,15	14	53,98
8	**100B800**	12,936	15,064	0,462	6,541	250	28	19
	01EB800	9,722	12,278	0,442	4,246	258,25	22	30
	02EB800	6,735	9,265	0,421	3,082	284,5	16	45
	03B800	5,786	8,214	0,413	2,796	311,15	14	53,98

cont. table 16

Frequencies – split cylindrical roller bearings

Shaft diameter	Designation	Part frequencies, per shaft revolution				Roller details		
	Bearing	Outer ring	Inner ring	Cage	Rollers	PCD	Qty	Diameter
mm/*in.*	–	1/rev				mm	–	mm
220	**100B220M**	9,929	12,071	0,451	5,086	267	22	26
	01EB220M	10,745	13,255	0,448	4,727	286,75	24	30
	02EB220M	7,712	10,288	0,428	3,423	314,5	18	45
	03B220M	4,964	7,036	0,414	2,808	349,25	12	60,33
9	**01EB900**	10,745	13,255	0,448	4,727	286,75	24	30
	02EB900	7,712	10,288	0,428	3,423	314,5	18	45
	03B900	4,964	7,036	0,414	2,808	349,25	12	60,33
230	**01EB230M**	10,745	13,255	0,448	4,727	286,75	24	30
	02EB230M	7,712	10,288	0,428	3,423	314,5	18	45
240	**01EB240M**	11,690	14,310	0,45	4,911	317,5	26	32
	02EB240M	6,837	9,163	0,427	3,367	344	16	50
	03B240M	5,853	8,147	0,418	2,971	368,3	14	60,33
250	**01EB250M**	11,690	14,310	0,45	4,911	317,5	26	32
	02EB250M	6,837	9,163	0,427	3,367	344	16	50
	03B250M	5,853	8,147	0,418	2,971	368,3	14	60,33
10	**01EB1000**	11,690	14,310	0,45	4,911	317,5	26	32
	02EB1000	6,837	9,163	0,427	3,367	344	16	50
	03B1000	5,853	8,147	0,418	2,971	368,3	14	60,33
260	**01EB260MEX16**	11,690	14,310	0,45	4,911	317,5	26	32
	01EB260MGR15	11,690	14,310	0,45	4,911	317,5	26	32
	01EB260M	11,675	14,325	0,449	4,856	343,5	26	35
	02EB260M	6,837	9,163	0,427	3,367	344	16	50
	03B260M	5,853	8,147	0,418	2,971	368,3	14	60,33
270	**01EB270M**	11,675	14,325	0,449	4,856	343,5	26	35
275	**01EB275M**	11,675	14,325	0,449	4,856	343,5	26	35
11	**01EB1100**	11,675	14,325	0,449	4,856	343,5	26	35
	02EB1100	7,795	10,205	0,433	3,668	373,5	18	50
	03EB1100	6,794	9,206	0,425	3,240	400,05	16	60,33
280	**01EB280M**	11,675	14,325	0,449	4,856	343,5	26	35
	02EB280M	7,795	10,205	0,433	3,668	373,5	18	50
	03EB280M	6,794	9,206	0,425	3,240	400,05	16	60,33
290	**01EB290M**	12,677	15,323	0,453	5,246	370,5	28	35
	03B290M	6,824	9,176	0,426	3,326	431,8	16	63,5
300	**01EB300M**	12,677	15,323	0,453	5,246	370,5	28	35
	02EB300M	8,755	11,245	0,438	3,953	401,5	20	50
	03B300M	6,824	9,176	0,426	3,326	431,8	16	63,5
12	**01EB1200**	12,677	15,323	0,453	5,246	370,5	28	35
	02EB1200	8,755	11,245	0,438	3,953	401,5	20	50
	03B1200	6,824	9,176	0,426	3,326	431,8	16	63,5
320	**01B320M**	11,908	14,092	0,458	5,910	396,88	26	33,34
	02B320M	8,852	11,148	0,443	4,297	428,63	20	49,21
	03B320M	5,927	8,073	0,423	3,184	476,2	14	73,03
330	**01B330M**	11,908	14,092	0,458	5,910	396,88	26	33,34
	02B330M	8,852	11,148	0,443	4,297	428,63	20	49,21
13	**01B1300**	11,908	14,092	0,458	5,910	396,88	26	33,34
	02B1300	8,852	11,148	0,443	4,297	428,63	20	49,21
	03B1300	5,927	8,073	0,423	3,184	476,2	14	73,03
340	**01B340MEX13**	11,908	14,092	0,458	5,910	396,88	26	33,34
	01B340MGR13	11,908	14,092	0,458	5,910	396,88	26	33,34
	01B340M	12,895	15,105	0,461	6,294	422,28	28	33,34
	02B340M	8,862	11,138	0,443	4,337	460,38	20	52,39
	03EB340M	6,850	9,150	0,428	3,405	485,78	16	69,85

cont. table 16

Frequencies – split cylindrical roller bearings

Shaft diameter	Designation Bearing	Part frequencies, per shaft revolution Outer ring	Inner ring	Cage	Rollers	Roller details PCD	Qty	Diameter
mm/*in.*	–	1/rev				mm	–	mm
350	**01B350M**	12,895	15,105	0,461	6,294	422,28	28	33,34
	02B350M	8,862	11,138	0,443	4,337	460,38	20	52,39
14	**01B1400**	12,895	15,105	0,461	6,294	422,28	28	33,34
	02B1400	8,862	11,138	0,443	4,337	460,38	20	52,39
	03EB1400	6,850	9,150	0,428	3,405	485,78	16	69,85
360	**01B360MEX15**	12,895	15,105	0,461	6,294	422,28	28	33,34
	01B360MGR15	12,895	15,105	0,461	6,294	422,28	28	33,34
	01B360M	12,915	15,085	0,461	6,416	450,85	28	34,93
	02B360M	8,862	11,138	0,443	4,337	460,38	20	52,39
	03EB360M	6,850	9,150	0,428	3,405	485,78	16	69,85
380	**01B380M**	12,915	15,085	0,461	6,416	450,85	28	34,93
	02B380M	9,806	12,194	0,446	4,552	482,6	22	52,39
	03B380M	6,857	9,143	0,429	3,429	533,4	16	76,2
15	**01B1500**	12,915	15,085	0,461	6,416	450,85	28	34,93
	02B1500	9,806	12,194	0,446	4,552	482,6	22	52,39
	03B1500	6,857	9,143	0,429	3,429	533,4	16	76,2
390	**01B390M**	13,900	16,100	0,463	6,782	476,25	30	34,93
400	**01B400M**	13,900	16,100	0,463	6,782	476,25	30	34,93
	02B400M	9,839	12,161	0,447	4,682	511,18	22	53,98
	03B400M	6,857	9,143	0,429	3,429	533,4	16	76,2
16	**01B1600**	13,900	16,100	0,463	6,782	476,25	30	34,93
	02B1600	9,839	12,161	0,447	4,682	511,18	22	53,98
420	**01B420M**	14,886	17,114	0,465	7,147	501,65	32	34,93
	02B420M	9,868	12,132	0,449	4,806	539,75	22	55,56
	03EB420M	8,693	11,307	0,435	3,759	566	20	74
17	**01B1700**	14,886	17,114	0,465	7,147	501,65	32	34,93
	02B1700	9,868	12,132	0,449	4,806	539,75	22	55,56
	03EB1700	8,693	11,307	0,435	3,759	566	20	74
440	**01B440M**	15,873	18,127	0,467	7,512	527,05	34	34,93
	02B440M	10,814	13,186	0,451	5,008	561,98	24	55,56
	03EB440M	8,693	11,307	0,435	3,759	566	20	74
18	**01B1800**	15,873	18,127	0,467	7,512	527,05	34	34,93
	02B1800	10,814	13,186	0,451	5,008	561,98	24	55,56
	03EB1800	7,800	10,200	0,433	3,683	600	18	80
460	**01B460M**	15,873	18,127	0,467	7,512	527,05	34	34,93
	02B460M	10,814	13,186	0,451	5,008	561,98	24	55,56
	03EB460M	7,800	10,200	0,433	3,683	600	18	80
480	**01B480M**	14,949	17,051	0,467	7,576	555,63	32	36,51
	02B480M	11,777	14,223	0,453	5,267	590,55	26	55,56
19	**01B1900**	14,949	17,051	0,467	7,576	555,63	32	36,51
	02B1900	11,777	14,223	0,453	5,267	590,55	26	55,56
500	**01B500M**	15,932	18,068	0,469	7,925	581,03	34	36,51
	02B500M	12,731	15,269	0,455	5,469	612,78	28	55,56
	03B500M	7,864	10,136	0,437	3,900	679,45	18	85,73
20	**01B2000**	15,932	18,068	0,469	7,925	581,03	34	36,51
	02B2000	12,731	15,269	0,455	5,469	612,78	28	55,56
	03B2000	7,864	10,136	0,437	3,900	679,45	18	85,73
530	**01B530M**	16,927	19,073	0,47	8,362	612,78	36	36,51
	02B530M	11,789	14,211	0,453	5,322	647,7	26	60,33
	03B530M	7,864	10,136	0,437	3,900	679,45	18	85,73

cont. table 16

Frequencies – split cylindrical roller bearings

Shaft diameter	Designation Bearing	Part frequencies, per shaft revolution Outer ring	Inner ring	Cage	Rollers	Roller details PCD	Qty	Diameter
mm/*in.*	–	1/rev				mm	–	mm
21	**01B2100**	16,927	19,073	0,47	8,362	612,78	36	36,51
	02B2100	11,789	14,211	0,453	5,322	647,7	26	60,33
22	**01B2200**	17,913	20,087	0,471	8,711	638,18	38	36,51
	02B2200	12,751	15,249	0,455	5,561	676,28	28	60,33
	03EB2200	8,800	11,200	0,44	4,107	714,38	20	85,73
560	**01B560M**	17,913	20,087	0,471	8,711	638,18	38	36,51
	02B560M	12,751	15,249	0,455	5,561	676,28	28	60,33
	03EB560M	8,800	11,200	0,44	4,107	714,38	20	85,73
580	**01B580M**	17,914	20,086	0,471	8,721	666,75	38	38,1
	02B580M	13,841	16,159	0,461	6,432	698,5	30	53,98
23	**01B2300**	17,914	20,086	0,471	8,721	666,75	38	38,1
	02B2300	13,841	16,159	0,461	6,432	698,5	30	53,98
	03EB2300	9,722	12,278	0,442	4,244	740	22	86
600	**01B600M**	18,899	21,101	0,472	9,056	692,15	40	38,1
	02B600M	13,750	16,250	0,458	5,958	723,9	30	60,33
	03EB600M	9,722	12,278	0,442	4,244	740	22	86
24	**01B2400**	18,899	21,101	0,472	9,056	692,15	40	38,1
	02B2400	13,750	16,250	0,458	5,958	723,9	30	60,33

Table 17

Frequencies – split tapered roller bearings

Shaft diameter	Designation Bearing	Part frequencies, per shaft revolution Outer ring	Inner ring	Cage	Rollers	Roller details PCD	Qty	Diameter	Contact angle
mm	–	1/rev				mm	–	mm	°
75	**1DTB75M**	0,445	4,264	8,006	9,994	102,6	18	11,95	17,5
80	**1DTB80M**	0,448	4,507	8,959	11,041	108,2	20	11,95	18,5
90	**1DTB90M**	0,453	4,898	9,955	12,045	117,4	22	11,95	20,13
100	**1DTB100M**	0,449	4,627	9,888	12,112	136	22	14,63	19
110	**1DTB110M**	0,455	5,167	10,926	13,074	147,9	24	14,29	21,25
120	**1DTB120M**	0,457	5,404	11,895	14,105	154,5	26	14,29	22,25
130	**1DTB130M**	0,461	6,022	12,901	15,099	176,4	28	14,62	18
140	**1DTB140M**	0,461	6,022	12,901	15,099	176,4	28	14,62	18
150	**1DTB150M**	0,461	6,145	12,918	15,082	196,9	28	15,99	17,21
160	**1DTB160M**	0,461	6,145	12,918	15,082	196,9	28	15,99	17,21
180	**1DTB180M**	0,465	6,776	13,959	16,041	216,8	30	15,99	19

Mounting

The mounting procedures for a split cylindrical roller and a split tapered roller bearing are similar. Instructions are supplied with each bearing. Specific instructions for non-standard assemblies can be supplied on request.

Prior to mounting

- Disassemble the bearings.
  - Unwrap the bearing parts.
  - Remove the outer ring halves (if supplied assembled around other parts).
  - Separate the cage halves (if required).
  - Undo the clamping ring screws and remove the clamping rings from the inner ring halves.
- Remove the preservative from all surfaces.

NOTE: Complete roller bearings are interchangeable between similar cartridges and cartridges are interchangeable between standard housings provided that standard clearances are specified.

The bearing, cage assemblies, and housing components however should not be mixed. All bearing and housing components (except for pressed steel, die cast, and plastic cages) are marked with matching numbers/letters on each half. Keep similar components together. Cage halves that are not marked should also be kept together as the rollers are graded into sets.

Mounting a split roller bearing in a plummer block housing

1 Position the housing base

- Place the plummer block base in position (**fig. 19**).
- Bolt the housing base to the support surface using appropriate attachment bolts (**product tables, pages 108 to 147).**
  - Plummer block housing bases typically require slight movement at a later stage in order to accurately position the shaft.

2 Mount the inner ring halves

- Lightly oil the shaft with a thin oil and remove the excess with a clean lint-free cloth.
- Position the inner ring halves on the shaft in the correct position (**fig. 20**).
- Using feeler gauges, make sure the gaps at both joints of the inner ring are equal.
  - Inner rings of non-locating cylindrical roller bearings are typically set centrally with the outer rings.
  - In cases of significant axial expansion there may be a deliberate offset. This is usually up to a maximum of 10% of the roller length, but may be more in the case of special types of bearings.

3 Mount the clamping rings

- Fit the clamping rings with joints at approximately 90° to the inner ring joints (45° in the case of large bearings with four-part clamping rings).
- Progressively tighten all clamping ring screws (**fig. 21**).
- Tap down each inner ring half and clamping ring all around the shaft using a soft-faced hammer (**fig. 22**), or insert a hardwood block between a steel hammer and the bearing parts.
- Retighten the clamping ring screws.
- Repeat until screws remain fully tight.
- Make sure the gaps at both joints of the inner ring are equal.
- Make sure the gaps at both (or all four) joints of the clamping rings are equal.

Fig. 19

Positioning the housing base

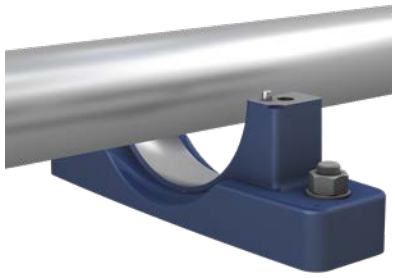


Fig. 20

Mounting the inner ring halves

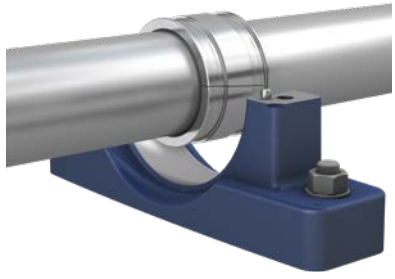


Fig. 21

Tightening the clamping ring screws

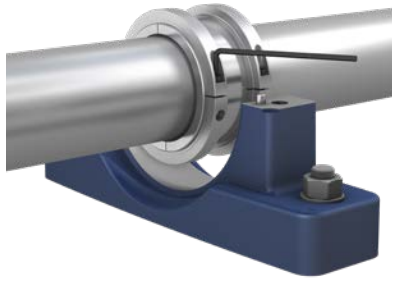
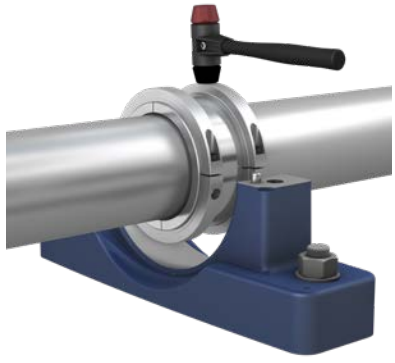


Fig. 22

Setting the clamping ring and inner ring



4 Mount the roller and cage assembly

- Coat the inside diameter of the roller and cage assembly halves with grease.
- Coat the inner ring and clamping rings lightly with grease (for protection).
- Mount the roller and cage assembly halves around the inner rings.

For cylindrical roller bearings (**fig. 23**):

- The two halves of the roller and cage assembly are fixed together depending on bearing size and series. (Refer to the assembly instructions supplied with the bearing.)

For tapered roller bearings (**fig. 24**):

- Note that the angle of the inner ring integral flange is such that the rollers cannot assume their working position (**a**) radially upon assembly. There is sufficient axial movement of the rollers in the cage to allow the cage to be assembled with the rollers axially clear of the integral flanges of the inne ring (**b**). Sometimes, the rollers assume an incorrect position during assembly (**c**). It is iportant to correct the position of these rollers before assembly-ing the cartridge and outer ring into position. Secure the two halves of the cage together by pressing the four "U" clips provided into position into the provided recesses. Push the "U" clip fully so that the clip touches the outside diameter of the cage.

Fig. 23

Mounting the roller and cage assembly

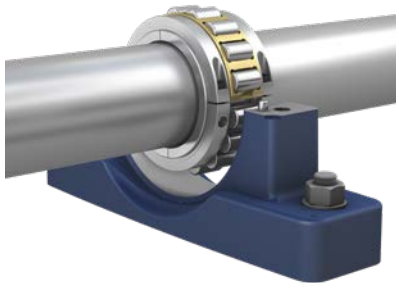
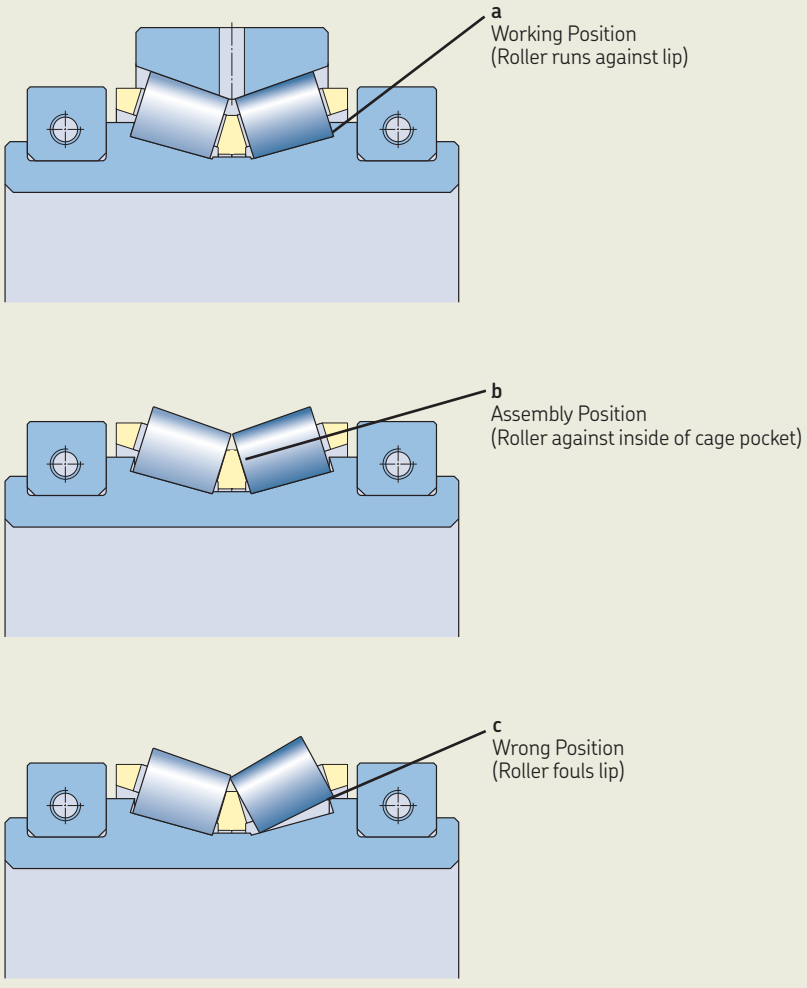


Fig. 24

Roller location



5 Cartridge and outer ring sub assembly

See **fig. 25** for a schematic illustration of side rods (A), side screws (B), radial screws (C) and joint screws (D).

- Place the outer ring half with the lubrication hole into the top half of the cartridge and the other outer ring half into the lower half of the cartridge.
- Make sure the ends of the outer ring protrude from the cartridge joint face by equal amounts.

For cylindrical roller bearings:

- For locating bearings and cartridges with outer rings having integral flanges:
  - Axially clamp all outer rings with an integral flange with side screws (B).
  - Place the radial joint screws (D) (where fitted, complete with washers) into the corresponding outer ring holes, but do not tighten.
  - Put the two cartridge halves together, complete with outer rings, and fully tighten the joint screws (D).
  - Put the side rods (A) (where fitted) and screws (B) in position.
  - Progressively and fully tighten the side screws (B) and radial screws (C) (where fitted).
- For non-locating bearings:
  - Place the radial screws (C) (where fitted, complete with washers) into the corresponding outer ring holes, but do not tighten.
  - Place the two cartridge halves together, complete with outer rings, and fully tighten the joint screws (D).
  - Fully tighten the radial screws (C).

For tapered roller bearings:

- Before putting the two halves of the cartridge together, fit side rods (A) and side screws (B) and tighten very lightly.
- Place together the two halves for the cartridge complete with outer ring halves and fully tighten joint screws (C and D).
- Progressively and fully tighten side screws (B).
- Inject grease to fill the grease passages. Remove joint screws (C and D) and separate cartridge halves, taking care that the outer ring halves do not fall out of position in their respective half-cartridges.

6 Install the seals

- Felt seals:
  - Soak the seals in hot oil.
  - Fit the seals into the cartridges.
- Grease groove seals:
  - Lubricate the cartridge end bores (machined with a series of small grooves with grease.
- Labyrinth seals (**fig. 26**):
  - Separate the seal halves by driving out the two jointing pins.
  - Lubricate the O-rings in the bore with grease.
  - Reassemble the seal on the shaft by compressing the O-rings of both halves sufficiently to allow the jointing pins to be reinserted.
  - Tighten the pins. (The seals are able to slide along the shaft once assembled.)
- High temperature packing seals:
  - Place the seals into the cartridge end bores and lubricate.
- Synthetic rubber single lip seals:
  - Place the seals into the cartridge end bores and lubricate.
- Spring loaded single lip seals with retaining plate:
  - Note: These seals are assembled after closing the cartridge (Step 8).
  - For each seal, remove the spring from the lip of its seal by twisting it in the appropriate direction at the joint.
  - Place the seal around the shaft with its lip pointing outwards and the joint of the seal at the top position.
  - Place the spring round the shaft, hold one end firmly and twist the other end round three or four times in the opposite direction to which it was twisted to release the spring.
  - Place the two ends of the spring together. Slowly let the twisted end unwind joining the two ends and fully twist the two ends of the spring together.
  - Place the spring over the lip of the seal so that it sits in its groove.
  - Grease the shaft where the seal will run and then push the seal along the shaft until it is fully positioned in the seal groove in the end of the cartridge.
  - Apply further lubricant to the seal lip.
  - Screw the seal retaining plate to the end face of the cartridge.

Fig. 25

Cartridge and outer ring sub assembly

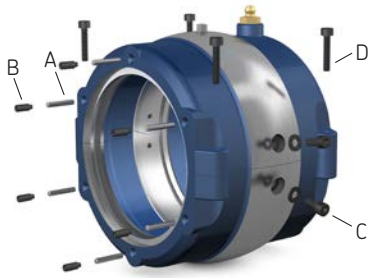
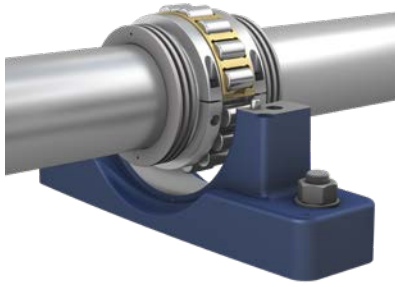


Fig. 26

Installing the seals



7 Lubricate with grease

- Coat the inside of the cartridge, roller and cage assembly, and all seals with grease (**table 12, pages 27 to 33** for split cylindrical roller bearings and **table 13, page 35** for split tapered roller bearings).
- For speeds over d_n = 150 000, approximately 40% of the grease used should be applied to the bearing parts and the remainder applied to the inside of the cartridge. This is to avoid excess churning of the grease when running at high speed.

8 Mounting the cartridge

- Lubricate the spherical seat of the bottom half of the cartridge with grease.
- Place the bottom half of the cartridge on top of the bearing and rotate 180° into the plummer block base.
- Place the top half of the cartridge on top of the bottom half, and close the cartridge (**fig. 27**).
- Fully tighten the joint screws.
- Lubricate the spherical seat with grease.

9 Mount the housing cap

- If not already done, tighten the attachment bolts fixing the housing base to the support surface.
- Place the plummer block cap into position.
- If safe to do so, run the shaft for a short while before tightening the cap bolts. This will help the bearing to become accurately aligned.
- Fully tighten the joint screws (**fig. 28**).

Tightening torques and screw sizes

Tightening torques, screw sizes and key sizes are provided in following tables:

- **table 18**, **page 54** for split cylindrical roller bearings
- **table 19**, **page 68** for split tapered roller bearings

All screws supplied for the housings, cartridges, and clamping rings, except for the cartridge side screws, are socket head cap screws. Cartridge side screws are hexagon set screws. All screws are made of high tensile steel, grade 12, 9 with a metric coarse thread.

Fig. 27

Mounting the cartridge

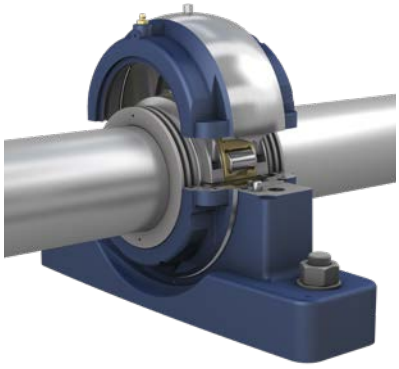
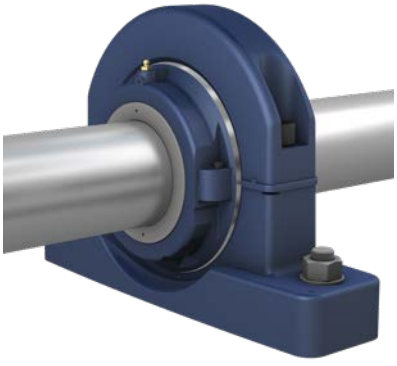


Fig. 28

Mounting the housing cap



Screw sizes, key sizes, and tightening torques – split cylindrical roller bearings

Shaft diameter	Designation Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Screw sizes, key sizes, and tightening torques Clamping ring screw Screw size	Key size (A/F)	Torque	Cartridge joint screw Screw size	Key size (A/F)	Torque	Cartridge radial screw Screw size	Key size (A/F)	Torque
mm/*in.*	–			–	mm	Nm	–	mm	Nm	–	mm	Nm
1 3/16	**01EB103**	–	**01C1**	M4	3	4,5	M4	3	3,5	–	–	–
1 1/4	**01EB104**	–	**01C1**	M4	3	4,5	M4	3	3,5	–	–	–
35	**01EB35M**	–	**01C1**	M4	3	4,5	M4	3	3,5	–	–	–
1 7/16	**01EB107**	–	**01C1**	M4	3	4,5	M4	3	3,5	–	–	–
1 1/2	**01EB108**	**01C108**	**01C1**	M4	3	4,5	M4	3	3,5	–	–	–
40	**01EB40M**	**01C40M**	**01C1**	M4	3	4,5	M4	3	3,5	–	–	–
1 11/16	**01EB111**	**01C111**	**01C2**	M4	3	4,5	M4	3	3,5	–	–	–
1 3/4	**01EB112**	**01C112**	**01C2**	M4	3	4,5	M4	3	3,5	–	–	–
45	**01EB45M**	**01C45M**	**01C2**	M4	3	4,5	M4	3	3,5	–	–	–
1 15/16	**01EB115**	**01C115**	**01C2**	M4	3	4,5	M4	3	3,5	–	–	–
	02EB115	**02C115**	**02C3**	M5	4	8,5	M5	4	6,5	–	–	–
50	**01EB50M**	**01C50M**	**01C2**	M4	3	4,5	M4	3	3,5	–	–	–
	02EB50M	**02C50M**	**02C3**	M5	4	8,5	M5	4	6,5	–	–	–
2	**01EB200**	**01C200**	**01C2**	M4	3	4,5	M4	3	3,5	–	–	–
	02EB200	**02C200**	**02C3**	M5	4	8,5	M5	4	6,5	–	–	–
55	**01EB55M**	**01C55M**	**01C3**	M4	3	4,5	M4	3	3,5	–	–	–
2 3/16	**01EB203**	**01C203**	**01C3**	M4	3	4,5	M4	3	3,5	–	–	–
	02EB203	**02C203**	**02C4**	M5	4	8,5	M5	4	6,5	–	–	–
2 1/4	**01EB204**	**01C204**	**01C3**	M4	3	4,5	M4	3	3,5	–	–	–
	02EB204	**02C204**	**02C4**	M5	4	8,5	M5	4	6,5	–	–	–
60	**01EB60M**	**01C60M**	**01C3**	M4	3	4,5	M4	3	3,5	–	–	–
	02EB60M	**02C60M**	**02C4**	M5	4	8,5	M5	4	6,5	–	–	–
2 7/16	**01EB207**	**01C207**	**01C3**	M4	3	4,5	M4	3	3,5	–	–	–
	02EB207	**02C207**	**02C4**	M5	4	8,5	M5	4	6,5	–	–	–
2 1/2	**01EB208**	**01C208**	**01C3**	M4	3	4,5	M4	3	3,5	–	–	–
	02EB208	**02C208**	**02C4**	M5	4	8,5	M5	4	6,5	–	–	–
65	**01EB65M**	**01C65M**	**01C3**	M4	3	4,5	M4	3	3,5	–	–	–
	02EB65M	**02C65M**	**02C4**	M5	4	8,5	M5	4	6,5	–	–	–
2 11/16	**01EB211**	**01C211**	**01C4**	M4	3	4,5	M4	3	3,5	–	–	–
	02EB211	**02C211**	**02C5**	M6	5	15	M6	5	11	–	–	–
2 3/4	**01EB212**	**01C212**	**01C4**	M4	3	4,5	M4	3	3,5	–	–	–
	02EB212	**02C212**	**02C5**	M6	5	15	M6	5	11	–	–	–
70	**01EB70M**	**01C70M**	**01C4**	M4	3	4,5	M4	3	3,5	–	–	–
	02EB70M	**02C70M**	**02C5**	M6	5	15	M6	5	11	–	–	–
2 15/16	**100B215**	**100C215**	**100C3**	M3	2,5	2	M4	3	3,5	–	–	–
	01EB215	**01C215**	**01C4**	M4	3	4,5	M4	3	3,5	–	–	–
	02EB215	**02C215**	**02C5**	M6	5	15	M6	5	11	–	–	–

1) For tension type take-up housings, replace TP with TT.
2) Designations listed are for housings with an oval flange. Those with the designation prefix D denote housings that are also available with a square flange.
3) For double or triple boss hangers, add the designation suffix DOUBLE BOSS or TRIPLE BOSS respectively.
4) The designation for a housing with a square flange is DFN0510; joint screw size M10, key size (A/F) 8 mm, tightening torque 52.5 Nm.

Table 18

Cartridge side screw			Plummer block / Take-up housing joint screw					Flanged housing joint screw				Hanger housing joint screw			
Screw size	Key size (A/F)	Torque	Designation[1]		Screw size	Key size (A/F)	Torque	Designation[2]	Screw size	Key size (A/F)	Torque	Designation[3]	Screw size	Key size (A/F)	Torque
–	mm	Nm	–		–	mm	Nm	–	–	mm	Nm	–	–	mm	Nm
M4	2	2	**P01**	**TP01**	M8	6	26	**F01**	M8	6	26	–	M5	4	6,5
M4	2	2	**P01**	**TP01**	M8	6	26	**F01**	M8	6	26	–	M5	4	6,5
M4	2	2	**P01**	**TP01**	M8	6	26	**F01**	M8	6	26	–	M5	4	6,5
M4	2	2	**P01**	**TP01**	M8	6	26	**F01**	M8	6	26	–	M5	4	6,5
M4	2	2	**P01**	**TP01**	M8	6	26	**F01**	M8	6	26	**01H108**	M5	4	6,5
M4	2	2	**P01**	**TP01**	M8	6	26	**F01**	M8	6	26	**01H40M**	M5	4	6,5
M4	2	2	**P02**	**TP02**	M8	6	26	**(D)F02**	M8	6	26	**01H111**	M6	5	11
M4	2	2	**P02**	**TP02**	M8	6	26	**(D)F02**	M8	6	26	**01H112**	M6	5	11
M4	2	2	**P02**	**TP02**	M8	6	26	**(D)F02**	M8	6	26	**01H45M**	M6	5	11
M4	2	2	**P02**	**TP02**	M8	6	26	**(D)F02**	M8	6	26	**01H115**	M6	5	11
M4	2	2	**P01**	**TP03**	M10	8	52,5	**F03**	M10	8	52,5	–	–	–	–
M4	2	2	**P02**	**TP02**	M8	6	26	**(D)F02**	M8	6	26	**01H50M**	M6	5	11
M4	2	2	**P01**	**TP03**	M10	8	52,5	**F03**	M10	8	52,5	–	–	–	–
M4	2	2	**P02**	**TP02**	M8	6	26	**F02**	M8	6	26	**01H200**	M6	5	11
M4	2	2	**P01**	**TP03**	M10	8	52,5	**F03**	M10	8	52,5	–	–	–	–
M4	2	2	**P03**	**TP03**	M10	8	52,5	**(D)F03**	M10	8	52,5	**01H55M**	M6	5	11
M4	2	2	**P03**	**TP03**	M10	8	52,5	**(D)F03**	M10	8	52,5	**01H203**	M6	5	11
M4	2	2	**P04**	**TP04**	M12	10	90	**F04**	M12	10	90	–	–	–	–
M4	2	2	**P03**	**TP03**	M10	8	52,5	**(D)F03**	M10	8	52,5	**01H204**	M6	5	11
M4	2	2	**P04**	**TP04**	M12	10	90	**F04**	M12	10	90	–	–	–	–
M4	2	2	**P03**	**TP03**	M10	8	52,5	**(D)F03**	M10	8	52,5	**01H60M**	M6	5	11
M4	2	2	**P04**	**TP04**	M12	10	90	**F04**	M12	10	90	–	–	–	–
M4	2	2	**P03**	**TP03**	M10	8	52,5	**(D)F03**	M10	8	52,5	**01H207**	M6	5	11
M4	2	2	**P04**	**TP04**	M12	10	90	**F04**	M12	10	90	–	–	–	–
M4	2	2	**P03**	**TP03**	M10	8	52,5	**(D)F03**	M10	8	52,5	**01H208**	M6	5	11
M4	2	2	**P04**	**TP04**	M12	10	90	**F04**	M12	10	90	–	–	–	–
M4	2	2	**P03**	**TP03**	M10	8	52,5	**(D)F03**	M10	8	52,5	**01H65M**	M6	5	11
M4	2	2	**P04**	**TP04**	M12	10	90	**F04**	M12	10	90	–	–	–	–
M4	2	2	**P04**	**TP04**	M12	10	90	**(D)F04**	M12	10	90	**01H211**	M8	6	26
M4	2	2	**P05**	**TP05**	M16	14	225	**F05**[4]	M12	10	90	–	–	–	–
M4	2	2	**P04**	**TP04**	M12	10	90	**(D)F04**	M12	10	90	**01H212**	M8	6	26
M4	2	2	**P05**	**TP05**	M16	14	225	**F05**	M12	10	90	–	–	–	–
M4	2	2	**P04**	**TP04**	M12	10	90	**(D)F04**	M12	10	90	**01H70M**	M8	6	26
M4	2	2	**P05**	**TP05**	M16	14	225	**F05**[4]	M12	10	90	–	–	–	–
M4	2	2	**P03**	**TP03**	M10	8	52,5	**(D)F03**	M10	8	52,5	**100H215**	M6	5	11
M4	2	2	**P04**	**TP04**	M12	10	90	**(D)F04**	M12	10	90	**01H215**	M8	6	26
M4	2	2	**P05**	**TP05**	M16	14	225	**F05**[4]	M12	10	90	–	–	–	–

Screw sizes, key sizes, and tightening torques – split cylindrical roller bearings

Shaft diameter	Designation Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Screw sizes, key sizes, and tightening torques Clamping ring screw Screw size	Key size (A/F)	Torque	Cartridge joint screw Screw size	Key size (A/F)	Torque	Cartridge radial screw Screw size	Key size (A/F)	Torque
mm/*in.*	–			–	mm	Nm	–	mm	Nm	–	mm	Nm
75	**100B75M**	**100C75M**	**100C3**	M3	2,5	2	M4	3	3,5	–	–	–
	01EB75M	**01C75M**	**01C4**	M4	3	4,5	M4	3	3,5	–	–	–
	02EB75M	**02C75M**	**02C5**	M6	5	15	M6	5	11	–	–	–
3	**100B300**	**100C300**	**100C3**	M3	2,5	2	M4	3	3,5	–	–	–
	01EB300	**01C300**	**01C4**	M4	3	4,5	M4	3	3,5	–	–	–
	02EB300	**02C300**	**02C5**	M6	5	15	M6	5	11	–	–	–
80	**01EB80M**	**01C80M**	**01C5**	M5	4	8,5	M5	4	6,5	–	–	–
	02EB80M	**02C80M**	**02C6**	M6	5	15	M6	5	11	–	–	–
3 3/16	**01EB303**	**01C303**	**01C5**	M5	4	8,5	M5	4	6,5	–	–	–
	02EB303	**02C303**	**02C6**	M6	5	15	M6	5	11	–	–	–
3 1/4	**01EB304**	**01C304**	**01C5**	M5	4	8,5	M5	4	6,5	–	–	–
	02EB304	**02C304**	**02C6**	M6	5	15	M6	5	11	–	–	–
85	**100B85M**	**100C85M**	**100C4**	M4	3	4,5	M4	3	3,5	–	–	–
	01EB85M	**01C85M**	**01C5**	M5	4	8,5	M5	4	6,5	–	–	–
	02EB85M	**02C85M**	**02C6**	M6	5	15	M6	5	11	–	–	–
3 7/16	**100B307**	**100C307**	**100C4**	M4	3	4,5	M4	3	3,5	–	–	–
	01EB307	**01C307**	**01C5**	M5	4	8,5	M5	4	6,5	–	–	–
	02EB307	**02C307**	**02C6**	M6	5	15	M6	5	11	–	–	–
3 1/2	**01EB308**	**01C308**	**01C5**	M5	4	8,5	M5	4	6,5	–	–	–
	02EB308	**02C308**	**02C6**	M6	5	15	M6	5	11	–	–	–
90	**01EB90M**	**01C90M**	**01C5**	M5	4	8,5	M5	4	6,5	–	–	–
	02EB90M	**02C90M**	**02C6**	M6	5	15	M6	5	11	–	–	–
3 11/16	**01EB311**	**01C311**	**01C6**	M6	5	15	M6	5	11	–	–	–
	02EB311	**02C311**	**02C7**	M6	5	15	M6	5	11	–	–	–
95	**01EB95M**	**01C95M**	**01C6**	M6	5	15	M6	5	11	–	–	–
3 3/4	**01EB312**	**01C312**	**01C6**	M6	5	15	M6	5	11	–	–	–
	02EB312	**02C312**	**02C7**	M6	5	15	M6	5	11	–	–	–
100	**100B100M**	**100C100M**	**100C5**	M4	3	4,5	M5	4	6,5	–	–	–
	01EB100M	**01C100M**	**01C6**	M6	5	15	M6	5	11	–	–	–
	02EB100M	**02C100M**	**02C7**	M6	5	15	M6	5	11	–	–	–
	03B100M	**03C100M**	**03C54**	M10	8	70	M10	8	52,5	–	–	–
3 15/16	**100B315**	**100C315**	**100C5**	M4	3	4,5	M5	4	6,5	–	–	–
	01EB315	**01C315**	**01C6**	M6	5	15	M6	5	11	–	–	–
	02EB315	**02C315**	**02C7**	M6	5	15	M6	5	11	–	–	–
	03B315	**03C315**	**03C54**	M10	8	70	M10	8	52,5	–	–	–
4	**100B400**	**100C400**	**100C5**	M4	3	4,5	M5	4	6,5	–	–	–
	01EB400	**01C400**	**01C6**	M6	5	15	M6	5	11	–	–	–
	02EB400	**02C400**	**02C7**	M6	5	15	M6	5	11	–	–	–
	03B400	**03C400**	**03C54**	M10	8	70	M10	8	52,5	–	–	–
105	**01EB105M**	**01C105M**	**01C6**	M6	5	15	M6	5	11	–	–	–
	02EB105M	**02C105M**	**02C7**	M6	5	15	M6	5	11	–	–	–

1) For tension type take-up housings, replace TP with TT.
2) Designations listed are for housings with a round flange. Those with the designation prefix D denote housings that are also available with a square flange.
3) For double or triple boss hangers, add the designation suffix DOUBLE BOSS orTRIPLE BOSS respectively.
4) The designation for a housing with a square flange is DFN0510; joint screw size M10, key size (A/F) 8 mm, tightening torque 52.5 Nm.

cont. table 18

Cartridge side screw			Plummer block / Take-up housing joint screw					Flanged housing joint screw				Hanger housing joint screw			
Screw size	Key size (A/F)	Torque	Designation[1]		Screw size	Key size (A/F)	Torque	Designation[2]	Screw size	Key size (A/F)	Torque	Designation[3]	Screw size	Key size (A/F)	Torque
–	mm	Nm	–		–	mm	Nm	–	–	mm	Nm	–	–	mm	Nm
M4	2	2	**P03**	**TP03**	M10	8	52,5	**(D)F03**	M10	8	52,5	**100H75M**	M6	5	11
M4	2	2	**P04**	**TP04**	M12	10	90	**(D)F04**	M12	10	90	**01H75M**	M8	6	26
M4	2	2	**P05**	**TP05**	M16	14	225	**F05**	M12	10	90	–	–	–	–
M4	2	2	**P03**	**TP03**	M10	8	52,5	**(D)F03**	M10	8	52,5	**100H300**	M6	5	11
M4	2	2	**P04**	**TP04**	M12	10	90	**(D)F04**	M12	10	90	**01H300**	M8	6	26
M4	2	2	**P05**	**TP05**	M16	14	225	**F05**	M12	10	90	–	–	–	–
M4	2	2	**P05**	**TP05**	M16	14	225	**F05**[4]	M12	10	90	**01H80M**	M10	8	52,5
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	–	–	–	–
M4	2	2	**P05**	**TP05**	M16	14	225	**F05**[4]	M12	10	90	**01H303**	M10	8	52,5
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	–	–	–	–
M4	2	2	**P05**	**TP05**	M16	14	225	**F05**[4]	M12	10	90	**01H304**	M10	8	52,5
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	–	–	–	–
M4	2	2	**P04**	**TP04**	M12	10	90	**(D)F04**	M12	10	90	**100H85M**	M8	6	26
M4	2	2	**P05**	**TP05**	M16	14	225	**F05**[4]	M12	10	90	**01H85M**	M10	8	52,5
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	–	–	–	–
M4	2	2	**P04**	**TP04**	M12	10	90	**(D)F04**	M12	10	90	**100H307**	M8	6	26
M4	2	2	**P05**	**TP05**	M16	14	225	**F05**[4]	M12	10	90	**01H307**	M10	8	52,5
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	–	–	–	–
M4	2	2	**P05**	**TP05**	M16	14	225	**F05**[4]	M12	10	90	**01H308**	M10	8	52,5
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	–	–	–	–
M4	2	2	**P05**	**TP05**	M16	14	225	**F05**[4]	M12	10	90	**01H90M**	M10	8	52,5
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	–	–	–	–
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	**01H311**	M10	8	52,5
M4	2	2	**P07**	**TP07**	M20	17	420	**F07**	M16	14	225	–	–	–	–
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	**01H95M**	M10	8	52,5
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	**01H312**	M10	8	52,5
M4	2	2	**P07**	**TP07**	M20	17	420	**F07**	M16	14	225	–	–	–	–
M4	2	2	**P05**	**TP05**	M16	14	225	**F05**[4]	M12	10	90	**100H100M**	M10	8	52,5
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	**01H100M**	M10	8	52,5
M4	2	2	**P07**	**TP07**	M20	17	420	**F07**	M16	14	225	–	–	–	–
M6	3	7,8	**P54**	–	M16	14	225	–	–	–		–	–	–	–
M4	2	2	**P05**	**TP05**	M16	14	225	**F05**[4]	M12	10	90	**100H315**	M10	8	52,5
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	**01H315**	M10	8	52,5
M4	2	2	**P07**	**TP07**	M20	17	420	**F07**	M16	14	225	–	–	–	–
M6	3	7,8	**P54**	–	M16	14	225	–	–	–	–	–	–	–	–
M4	2	2	**P05**	**TP05**	M16	14	225	**F05**[4]	M12	10	90	**100H400**	M10	8	52,5
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	**01H400**	M10	8	52,5
M4	2	2	**P07**	**TP07**	M20	17	420	**F07**	M16	14	225	–	–	–	–
M6	3	7,8	**P54**	–	M16	14	225	–	–	–	–	–	–	–	–
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	**01H105M**	M10	8	52,5
M4	2	2	**P07**	**TP07**	M20	17	420	**F07**	M16	14	225	–	–	–	–

Screw sizes, key sizes, and tightening torques – split cylindrical roller bearings

Shaft diameter	Designation Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Screw sizes, key sizes, and tightening torques Clamping ring screw			Cartridge joint screw			Cartridge radial screw		
				Screw size	Key size (A/F)	Torque	Screw size	Key size (A/F)	Torque	Screw size	Key size (A/F)	Torque
mm/*in.*	–			–	mm	Nm	–	mm	Nm	–	mm	Nm
4 3/16	**01EB403**	**01C403**	**01C7**	M6	5	15	M6	5	11	–	–	–
	02EB403	**02C403**	**02C8**	M8	6	35	M8	6	26	–	–	–
110	**100B110M**	**100C110M**	**100C6**	M5	4	8,5	M5	4	6,5	–	–	–
	01EB110M	**01C110M**	**01C7**	M6	5	15	M6	5	11	–	–	–
	02EB110M	**02C110M**	**02C8**	M8	6	35	M8	6	26	–	–	–
	03B110M	**03C110M**	**03C55**	M10	8	70	M10	8	52,5	M10	8	35
4 7/16	**100B407**	**100C407**	**100C6**	M5	4	8,5	M5	4	6,5	–	–	–
	01EB407	**01C407**	**01C7**	M6	5	15	M6	5	11	–	–	–
	02EB407	**02C407**	**02C8**	M8	6	35	M8	6	26	–	–	–
	03B407	**03C407**	**03C55**	M10	8	70	M10	8	52,5	M10	8	35
4 1/2	**100B408**	**100C408**	**100C6**	M5	4	8,5	M5	4	6,5	–	–	–
	01EB408	**01C408**	**01C7**	M6	5	15	M6	5	11	–	–	–
	02EB408	**02C408**	**02C8**	M8	6	35	M8	6	26	–	–	–
	03B408	**03C408**	**03C55**	M10	8	70	M10	8	52,5	M10	8	35
115	**100B115M**	**100C115M**	**100C6**	M5	4	8,5	M5	4	6,5	–	–	–
	01EB115M	**01C115M**	**01C7**	M6	5	15	M6	5	11	–	–	–
	02EB115M	**02C115M**	**02C8**	M8	6	35	M8	6	26	–	–	–
120	**100B120M**	**100C120M**	**100C7**	M6	5	15	M6	5	11	–	–	–
	01EB120M	**01C120M**	**01C8**	M6	5	15	M6	5	11	–	–	–
	02EB120M	**02C120M**	**02C10**	M8	6	35	M8	6	26	–	–	–
	03B120M	**03C120M**	**03C55**	M10	8	70	M10	8	52,5	M10	8	35
125	**100B125M**	**100C125M**	**100C7**	M6	5	15	M6	5	11	–	–	–
	01EB125M	**01C125M**	**01C8**	M6	5	15	M6	5	11	–	–	–
	02EB125M	**02C125M**	**02C10**	M8	6	35	M8	6	26	–	–	–
4 15/16	**100B415**	**100C415**	**100C7**	M6	5	15	M6	5	11	–	–	–
	01EB415	**01C415**	**01C8**	M6	5	15	M6	5	11	–	–	–
	02EB415	**02C415**	**02C10**	M8	6	35	M8	6	26	–	–	–
	03B415	**03C415**	**03C56**	M10	8	70	M10	8	52,5	M10	8	35
5	**100B500**	**100C500**	**100C7**	M6	5	15	M6	5	11	–	–	–
	01EB500	**01C500**	**01C8**	M6	5	15	M6	5	11	–	–	–
	02EB500	**02C500**	**02C10**	M8	6	35	M8	6	26	–	–	–
	03B500	**03C500**	**03C56**	M10	8	70	M10	8	52,5	M10	8	35
130	**100B130M**	**100C130M**	**100C7**	M6	5	15	M6	5	11	–	–	–
	01EB130M	**01C130M**	**01C8**	M6	5	15	M6	5	11	–	–	–
	02EB130M	**02C130M**	**02C10**	M8	6	35	M8	6	26	–	–	–
	03B130M	**03C130M**	**03C56**	M10	8	70	M10	8	52,5	M10	8	35
5 3/16	**01EB503**	**01C503**	**01C9**	M8	6	35	M8	6	26	–	–	–
	02EB503	**02C503**	**02C30**	M8	6	35	M8	6	26	–	–	–
135	**01EB135M**	**01C135M**	**01C9**	M8	6	35	M8	6	26	–	–	–
5 7/16	**100B507**	**100C507**	**100C8**	M6	5	15	M6	5	11	–	–	–
	01EB507	**01C507**	**01C9**	M8	6	35	M8	6	26	–	–	–
	02EB507	**02C507**	**02C30**	M8	6	35	M8	6	26	–	–	–
	03B507	**03C507**	**03C57**	M10	8	70	M10	8	52,5	M10	8	35
5 1/2	**100B508**	**100C508**	**100C8**	M6	5	15	M6	5	11	–	–	–
	01EB508	**01C508**	**01C9**	M8	6	35	M8	6	26	–	–	–
	02EB508	**02C508**	**02C30**	M8	6	35	M8	6	26	–	–	–
	03B508	**03C508**	**03C57**									

[1] For tension type take-up housings, replace TP with TT.
[2] For double or triple boss hangers, add the designation suffix DOUBLE BOSS or TRIPLE BOSS respectively.

cont. table 18

Cartridge side screw			Plummer block / Take-up housing joint screw					Flanged housing joint screw				Hanger housing joint screw			
Screw size	Key size (A/F)	Torque	Designation[1]		Screw size	Key size (A/F)	Torque	Designation	Screw size	Key size (A/F)	Torque	Designation[2]	Screw size	Key size (A/F)	Torque
–	mm	Nm	–		–	mm	Nm	–	–	mm	Nm	–	–	mm	Nm
M6	3	7,8	**P07**	**TP07**	M20	17	420	**F07**	M16	14	225	**01H403**	M10	8	52,5
M6	3	7,8	**P08**	**TP08**	M20	17	420	**F08**	M20	17	420	–	–	–	–
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	**100H110M**	M10	8	52,5
M6	3	7,8	**P07**	**TP07**	M20	17	420	**F07**	M16	14	225	**01H110M**	M10	8	52,5
M6	3	7,8	**P08**	**TP08**	M20	17	420	**F08**	M20	17	420	–	–	–	–
M6	3	7,8	**P55**	–	M16	14	225	–	–	–	–	–	–	–	–
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	**100H407**	M10	8	52,5
M6	3	7,8	**P07**	**TP07**	M20	17	420	**F07**	M16	14	225	**01H407**	M10	8	52,5
M6	3	7,8	**P08**	**TP08**	M20	17	420	**F08**	M20	17	420	–	–	–	–
M6	3	7,8	**P55**	–	M16	14	225	–	–	–	–	–	–	–	–
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	**100H408**	M10	8	52,5
M6	3	7,8	**P07**	**TP07**	M20	17	420	**F07**	M16	14	225	**01H408**	M10	8	52,5
M6	3	7,8	**P08**	**TP08**	M20	17	420	**F08**	M20	17	420	–	–	–	–
M6	3	7,8	**P55**	–	M16	14	225	–	–	–	–	–	–	–	–
M4	2	2	**P06**	**TP06**	M16	14	225	**F06**	M16	14	225	**100H115M**	M10	8	52,5
M6	3	7,8	**P07**	**TP07**	M20	17	420	**F07**	M16	14	225	**01H115M**	M10	8	52,5
M6	3	7,8	**P08**	**TP08**	M20	17	420	**F08**	M20	17	420	–	–	–	–
M6	3	7,8	**P07**	**TP07**	M20	17	420	**F07**	M16	14	225	**100H120M**	M10	8	52,5
M6	3	7,8	**P08**	**TP08**	M20	17	420	**F08**	M20	17	420	**01H120M**	M10	8	52,5
M6	3	7,8	**P10**	**TP10**	M20	17	420	**F10**	M20	17	420	–	–	–	–
M6	3	7,8	**P55**	–	M16	14	225	–	–	–	–	–	–	–	–
M6	3	7,8	**P07**	**TP07**	M20	17	420	**F07**	M16	14	225	**100H125M**	M10	8	52,5
M6	3	7,8	**P08**	**TP08**	M20	17	420	**F08**	M20	17	420	**01H125M**	M10	8	52,5
M6	3	7,8	**P10**	**TP10**	M20	17	420	**F10**	M20	17	420	–	–	–	–
M6	3	7,8	**P07**	**TP07**	M20	17	420	**F07**	M16	14	225	**100H415**	M10	8	52,5
M6	3	7,8	**P08**	**TP08**	M20	17	420	**F08**	M20	17	420	**01H415**	M10	8	52,5
M6	3	7,8	**P10**	**TP10**	M20	17	420	**F10**	M20	17	420	–	–	–	–
M6	3	7,8	**P56**	–	M16	14	225	–	–	–	–	–	–	–	–
M6	3	7,8	**P07**	**TP07**	M20	17	420	**F07**	M16	14	225	**100H500**	M10	8	52,5
M6	3	7,8	**P08**	**TP08**	M20	17	420	**F08**	M20	17	420	**01H500**	M10	8	52,5
M6	3	7,8	**P10**	**TP10**	M20	17	420	**F10**	M20	17	420	–	–	–	–
M6	3	7,8	**P56**	–	M16	14	225	–	–	–	–	–	–	–	–
M6	3	7,8	**P07**	**TP07**	M20	17	420	**F07**	M16	14	225	**100H130M**	M10	8	52,5
M6	3	7,8	**P08**	**TP08**	M20	17	420	**F08**	M20	17	420	**01H130M**	M10	8	52,5
M6	3	7,8	**P10**	**TP10**	M20	17	420	**F10**	M20	17	420	–	–	–	–
M6	3	7,8	**P56**	–	M16	14	225	–	–	–	–	–	–	–	–
M6	3	7,8	**P09**	**TP09**	M20	17	420	**F09**	M20	17	420	**01H503**	M10	8	52,5
M6	3	7,8	**P30**	**TP09**	M20	17	420	**F30**	M24	19	712	–	–	–	–
M6	3	7,8	**P09**	**TP09**	M20	17	420	**F09**	M20	17	420	**01H135M**	M10	8	52,5
M6	3	7,8	**P08**	**TP08**	M20	17	420	**F08**	M20	17	420	**100H507**	M10	8	52,5
M6	3	7,8	**P09**	**TP09**	M20	17	420	**F09**	M20	17	420	**01H507**	M10	8	52,5
M6	3	7,8	**P30**	**TP09**	M20	17	420	**F30**	M24	19	712	–	–	–	–
M10	5	30	**P57**	–	M20	17	420	–	–	–	–	–	–	–	–
M6	3	7,8	**P08**	**TP08**	M20	17	420	**F08**	M20	17	420	**100H508**	M10	8	52,5
M6	3	7,8	**P09**	**TP09**	M20	17	420	**F09**	M20	17	420	**01H508**	M10	8	52,5
M6	3	7,8	**P30**	**TP09**	M20	17	420	**F30**	M24	19	712	–	–	–	–
M10	5	30	**P57**	–	M20	17	420	–	–	–	–	–	–	–	–

Screw sizes, key sizes, and tightening torques – split cylindrical roller bearings

Shaft diameter	Designation Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Screw sizes, key sizes, and tightening torques Clamping ring screw			Cartridge joint screw			Cartridge radial screw		
				Screw size	Key size (A/F)	Torque	Screw size	Key size (A/F)	Torque	Screw size	Key size (A/F)	Torque
mm/*in.*	–			–	mm	Nm	–	mm	Nm	–	mm	Nm
140	**100B140M**	**100C140M**	**100C8**	M6	5	15	M6	5	11	–	–	–
	01EB140M	**01C140M**	**01C9**	M8	6	35	M8	6	26	–	–	–
	02EB140M	**02C140M**	**02C30**	M8	6	35	M8	6	26	–	–	–
	03B140M	**03C140M**	**03C57**	M10	8	70	M10	8	52,5	M10	8	35
145	**02EB145M**	**02C145M**	**02C30**	M8	6	35	M8	6	26	–	–	–
150	**100B150M**	**100C150M**	**100C9**	M8	6	35	M8	6	26	–	–	–
	01EB150M	**01C150M**	**01C10**	M8	6	35	M8	6	26	–	–	–
	02EB150M	**02C150M**	**02C31**	M8	6	35	M8	6	26	–	–	–
	03B150M	**03C150M**	**03C58**	M10	8	70	M10	8	52,5	M10	8	35
5 15/16	**100B515**	**100C515**	**100C9**	M8	6	35	M8	6	26	–	–	–
	01EB515	**01C515**	**01C10**	M8	6	35	M8	6	26	–	–	–
	02EB515	**02C515**	**02C31**	M8	6	35	M8	6	26	–	–	–
	03B515	**03C515**	**03C58**	M10	8	70	M10	8	52,5	M10	8	35
6	**100B508**	**100C600**	**100C9**	M8	6	35	M8	6	26	–	–	–
	01EB600	**01C600**	**01C10**	M8	6	35	M8	6	26	–	–	–
	02EB600	**02C600**	**02C31**	M8	6	35	M8	6	26	–	–	–
	03B600	**03C600**	**03C58**	M10	8	70	M10	8	52,5	M10	8	35
155	**01EB155M**	**01C155M**	**01C10**	M8	6	35	M8	6	26	–	–	–
	02EB155M	**02C155M**	**02C31**	M8	6	35	M8	6	26	–	–	–
160	**01EB160MEX10**	**01C160MEX14**	**01C10EX10**	M8	6	35	M8	6	26	–	–	–
	01EB160MGR10	**01C160MGR10**	**01C10GR10**	M8	6	35	M8	6	26	–	–	–
	01EB160M	**01C160M**	**01C11**	M8	6	35	M8	6	26	–	–	–
	02EB160MEX10	**02C160MEX10**	**02C31EX10**	M8	6	35	M8	6	26	–	–	–
	02EB160MGR10	**02C160MGR10**	**02C31GR10**	M8	6	35	M8	6	26	–	–	–
	02EB160M	**02C160M**	**02C32**	M10	8	70	M10	8	52,5	–	–	–
	03B160M	**03C160M**	**03C59**	M12	10	120	M12	10	90	M12	10	60
6 7/16	**01EB607**	**01C607**	**01C11**	M8	6	35	M8	6	26	–	–	–
	02EB607	**02C607**	**02C32**	M10	8	70	M10	8	52,5	–	–	–
	03B607	**03C607**	**03C59**	M12	10	120	M12	10	90	M12	10	60
6 1/2	**01EB608**	**01C608**	**01C11**	M8	6	35	M8	6	26	–	–	–
	02EB608	**02C608**	**02C32**	M10	8	70	M10	8	52,5	–	–	–
	03B608	**03C608**	**03C59**	M12	10	120	M12	10	90	M12	10	60
170	**01EB170MEX13**	**01C170MEX13**	**01C11EX10**	M8	6	35	M8	6	26	–	–	–
	01EB170MGR14	**01C170MGR15**	**01C11GR10**	M8	6	35	M8	6	26	–	–	–
	01EB170M	**01C170M**	**01C12**	M8	6	35	M8	6	26	–	–	–
	02EB170M	**02C170M**	**02C32EX10**	M10	8	70	M10	8	52,5	–	–	–
	02EB170M	**02C170M**	**02C32GR10**	M10	8	70	M10	8	52,5	–	–	–
	03B170M	**03C170M**	**03C59**	M12	10	120	M12	10	90	M12	10	60
175	**01EB175M**	**01C175M**	**01C12**	M8	6	35	M8	6	26	–	–	–
	02EB175M	**02C175M**	**02C33**	M10	8	70	M10	8	52,5	M10	8	35
6 15/16	**01EB615**	**01C615**	**01C12**	M8	6	35	M8	6	26	–	–	–
	02EB615	**02C615**	**02C33**	M10	8	70	M10	8	52,5	M10	8	35
	03B615	**03C615**	**03C60**	M12	10	120	M12	10	90	M12	10	60
7	**01EB700**	**01C700**	**01C12**	M8	6	35	M8	6	26	–	–	–
	02EB700	**02C700**	**02C33**	M10	8	70	M10	8	52,5	M10	8	35
	03B700	**03C700**	**03C60**	M12	10	120	M12	10	90	M12	10	60
180	**01EB180M**	**01C180M**	**01C12**	M8	6	35	M8	6	26	–	–	–
	02EB180M	**02C180M**	**02C33**	M10	8	70	M10	8	52,5	M10	8	35
	03B180M	**03C180M**	**03C60**	M12	10	120	M12	10	90	M12	10	60

1) For tension type take-up housings, replace TP with TT.
2) For double or triple boss hangers, add the designation suffix DOUBLE BOSS or TRIPLE BOSS respectively.
3) For housing TP31 (or TT31), the screw size is M24, the key size is 19 mm and the torque is 712 Nm.

cont. table 18

Cartridge side screw			Plummer block / Take-up housing joint screw					Flanged housing joint screw				Hanger housing joint screw			
Screw size	Key size (A/F)	Torque	Designation[1]		Screw size	Key size (A/F)	Torque	Desig-nation	Screw size	Key size (A/F)	Torque	Designa-tion[2]	Screw size	Key size (A/F)	Torque
–	mm	Nm	–		–	mm	Nm	–	–	mm	Nm	–	–	mm	Nm
M6	3	7,8	**P08**	**TP08**	M20	17	420	**F08**	M20	17	420	**100H140M**	M10	8	52,5
M6	3	7,8	**P09**	**TP09**	M20	17	420	**F09**	M20	17	420	**01H140M**	M10	8	52,5
M6	3	7,8	**P30**	**TP09**	M20	17	420	**F30**	M24	19	712	–	–	–	–
M10	5	30	**P57**	–	M20	17	420	–	–	–	–	–	–	–	–
M6	3	7,8	**P30**	**TP09**	M20	17	420	**F30**	M24	19	712	–	–	–	–
M6	3	7,8	**P09**	**TP09**	M20	17	420	**F09**	M20	17	420	**100H150M**	M10	8	52,5
M6	3	7,8	**P10**	**TP10**	M20	17	420	**F10**	M20	17	420	–	–	–	–
M6	3	7,8	**P31**	**TP31**[3]	M20	17	420	**F31**	M24	19	712	–	–	–	–
M10	5	30	**P58**	–	M20	17	420	–	–	–	–	–	–	–	–
M6	3	7,8	**P09**	**TP09**	M20	17	420	**F09**	M20	17	420	**100H515**	M10	8	52,5
M6	3	7,8	**P10**	**TP10**	M20	17	420	**F10**	M20	17	420	–	–	–	–
M6	3	7,8	**P31**	**TP31**[3]	M20	17	420	**F31**	M24	19	712	–	–	–	–
M10	5	30	**P58**	–	M20	17	420	–	–	–	–	–	–	–	–
M6	3	7,8	**P09**	**TP09**	M20	17	420	**F09**	M20	17	420	**100H600**	M10	8	52,5
M6	3	7,8	**P10**	**TP10**	M20	17	420	**F10**	M20	17	420	–	–	–	–
M6	3	7,8	**P31**	**TP31**[3]	M20	17	420	**F31**	M24	19	712	–	–	–	–
M10	5	30	**P58**	–	M20	17	420	–	–	–	–	–	–	–	–
M6	3	7,8	**P10**	**TP10**	M20	17	420	**F10**	M20	17	420	–	–	–	–
M6	3	7,8	**P31**	**TP31**[3]	M20	17	420	**F31**	M24	19	712	–	–	–	–
–	–	–	**P10**	**TP10**	M20	17	420	**F10**	M20	17	420	–	–	–	–
M6	3	7,8	**P10**	**TP10**	M20	17	420	**F10**	M20	17	420	–	–	–	–
M6	3	7,8	**P11**	**TP31**[3]	M16	14	225	**F11**	M20	17	420	–	–	–	–
–	–	–	**P31**	–	M20	17	420	**F31**	M24	19	712	–	–	–	–
M6	3	7,8	**P31**	–	M20	17	420	**F31**	M24	19	712	–	–	–	–
M6	3	7,8	**P32**	–	M20	17	420	**F32**	M24	19	712	–	–	–	–
M10	5	30	**P59**	–	M20	17	420	–	–	–	–	–	–	–	–
M6	3	7,8	**P11**	–	M16	14	225	**F11**	M20	17	420	–	–	–	–
M6	3	7,8	**P32**	–	M20	17	420	**F32**	M24	19	712	–	–	–	–
M10	5	30	**P59**	–	M20	17	420		–	–	–	–	–	–	–
M6	3	7,8	**P11**	–	M16	14	225	**F11**	M20	17	420	–	–	–	–
M6	3	7,8	**P32**	–	M20	17	420	**F32**	M24	19	712	–	–	–	–
M10	5	30	**P59**	–	M20	17	420	–	–	–	–	–	–	–	–
–	–	–	**P11**	–	M16	14	225	**F11**	M20	17	420	–	–	–	–
M6	3	7,8	**P11**	–	M16	14	225	**F11**	M20	17	420	–	–	–	–
			P12	–	M16	14	225	**F32**	M20	17	420	–	–	–	–
–	–	–	**P32**	–	M20	17	420	**F12**	M24	19	712	–	–	–	–
M6	3	7,8	**P32**	–	M20	17	420	**F12**	M24	19	712	–	–	–	–
M10	5	30	**P59**	–	M20	17	420	–	–	–	–	–	–	–	–
M6	3	7,8	**P12**	–	M16	14	225	**F12**	M20	17	420	–	–	–	–
M6	3	7,8	**P33**	–	M20	17	420	**F33**	M24	19	712	–	–	–	–
M6	3	7,8	**P12**	–	M16	14	225	**F12**	M20	17	420	–	–	–	–
M6	3	7,8	**P33**	–	M20	17	420	**F33**	M24	19	712	–	–	–	–
M10	5	30	**P60**	–	M20	17	420	–	–	–	–	–	–	–	–
M6	3	7,8	**P12**	–	M16	14	225	**F12**	M20	17	420	–	–	–	–
M6	3	7,8	**P33**	–	M20	17	420	**F33**	M24	19	712	–	–	–	–
M10	5	30	**P60**	–	M20	17	420	–	–	–	–	–	–	–	–
M6	3	7,8	**P12**	–	M16	14	225	**F12**	M20	17	420	–	–	–	–
M6	3	7,8	**P33**	–	M20	17	420	**F33**	M24	19	712	–	–	–	–
M10	5	30	**P60**	–	M20	17	420	–	–	–	–	–	–	–	–

Screw sizes, key sizes, and tightening torques – split cylindrical roller bearings

Shaft diameter	Designation Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Screw sizes, key sizes, and tightening torques Clamping ring screw Screw size	Key size (A/F)	Torque	Cartridge joint screw Screw size	Key size (A/F)	Torque	Cartridge radial screw Screw size	Key size (A/F)	Torque
mm/*in.*	–			–	mm	Nm	–	mm	Nm	–	mm	Nm
190	**01EB190M**	**01C190M**	**01C13**	M8	6	35	M8	6	26	M10	8	35
	02EB190M	**02C190M**	**02C34**	M12	10	120	M12	10	90	M10	8	35
	03B190M	**03C190M**	**03C61**	M12	10	120	M12	10	90	M12	10	60
200	**100B200M**	**100C200M**	[1]	M8	6	35	M8	6	26	–	–	–
	01EB200M	**01C200M**	**01C13**	M8	6	35	M8	6	26	M10	8	35
	02EB200M	**02C200M**	**02C34**	M12	10	120	M12	10	90	M10	8	35
	03B200M	**03C200M**	**03C61**	M12	10	120	M12	10	90	M12	10	60
7 15/16	**100B715**	**100C200M**	[1]	M8	6	35	M8	6	26	–	–	–
	01EB715	**01C715**	**01C13**	M8	6	35	M8	6	26	M10	8	35
	02EB715	**02C715**	**02C34**	M12	10	120	M12	10	90	M10	8	35
	03B715	**03C715**	**03C61**	M12	10	120	M12	10	90	M12	10	60
8	**100B800**	**100C200M**	[1]	M8	6	35	M8	6	26	–	–	–
	01EB800	**01C800**	**01C13**	M8	6	35	M8	6	26	M10	8	35
	02EB800	**02C800**	**02C34**	M12	10	120	M12	10	90	M10	8	35
	03B800	**03C800**	**03C61**	M12	10	120	M12	10	90	M12	10	60
220	**100B220M**	**100C220M**	[1]	M8	6	35	M8	6	26	M6	5	7,5
	01EB220M	**01C220M**	**01C14**	M10	8	70	M10	8	52,5	M10	8	35
	02EB220M	**02C220M**	**02C35**	M12	10	120	M12	10	90	M10	8	35
	03B220M	**03C220M**	**03C62**	M16	14	300	M16	14	225	M12	10	60
9	**01EB900**	**01C900**	**01C14**	M10	8	70	M10	8	52,5	M10	8	35
	02EB900	**02C900**	**02C35**	M12	10	120	M12	10	90	M10	8	35
	03B900	**03C900**	**03C62**	M16	14	300	M16	14	225	M12	10	60
230	**01EB230M**	**01C230M**	**01C14**	M10	8	70	M10	8	52,5	M10	8	35
	02EB230M	**02C230M**	**02C35**	M12	10	120	M12	10	90	M10	8	35
240	**01EB240M**	**01C240M**	**01C15**	M10	8	70	M10	8	52,5	M10	8	35
	02EB240M	**02C240M**	**02C36**	M12	10	120	M12	10	90	M10	8	35
	03B240M	**03C240M**	**03C63**	M16	14	300	M16	14	225	M12	10	60
250	**01EB250M**	**01C250M**	**01C15**	M10	8	70	M10	8	52,5	M10	8	35
	02EB250M	**02C250M**	**02C36**	M12	10	120	M12	10	90	M10	8	35
	03B250M	**03C250M**	**03C63**	M16	14	300	M16	14	225	M12	10	60
10	**01EB1000**	**01C1000**	**01C15**	M10	8	70	M10	8	52,5	M10	8	35
	02EB1000	**02C1000**	**02C36**	M12	10	120	M12	10	90	M10	8	35
	03B1000	**03C1000**	**03C63**	M16	14	300	M16	14	225	M12	10	60
260	**01EB260MEX16**	**01C260MEX15**	**01C15EX15**	M10	8	70	M10	8	52,5	M10	8	35
	01EB260MGR15	**01C260MGR12**	**01C15GR13**	M10	8	70	M10	8	52,5	M10	8	35
	01EB260M	**01C260M**	**01C16**	M10	8	70	M10	8	52,5	M10	8	35
	02EB260M	**02C260M**	**02C36EX10**	M12	10	120	M12	10	90	M10	8	35
	02EB260M	**02C260M**	**02C36GR11**	M12	10	120	M12	10	90	M10	8	35
	03B260M	**03C260M**	**03C63EX10**	M16	14	300	M16	14	225	M12	10	60
	03B260M	**03C260M**	**03C63GR10**	M16	14	300	M16	14	225	M12	10	60
270	**01EB270M**	**01C270M**	**01C16**	M10	8	70	M10	8	52,5	M10	8	35
275	**01EB275M**	**01C275M**	**01C16**	M10	8	70	M10	8	52,5	M10	8	35
11	**01EB1100**	**01C1100**	**01C16**	M10	8	70	M10	8	52,5	M10	8	35
	02EB1100	**02C1100**	**02C37**	M16	14	300	M16	14	225	M10	8	35
	03EB1100	**03C1100**	**03C83**	M20	17	560	M20	17	420	M12	10	60
280	**01EB280M**	**01C280M**	**01C16**	M10	8	70	M10	8	52,5	M10	8	35
	02EB280M	**02C280M**	**02C37**	M16	14	300	M16	14	225	M10	8	35
	03EB280M	**03C280M**	**03C83**	M20	17	560	M20	17	420	M12	10	60

[1] Contact SKF.

cont. table 18

Cartridge side screw			Plummer block / Take-up housing joint screw					Flanged housing joint screw				Hanger housing joint screw			
Screw size	Key size (A/F)	Torque	Designation		Screw size	Key size (A/F)	Torque	Desig-nation	Screw size	Key size (A/F)	Torque	Designa-tion	Screw size	Key size (A/F)	Torque
–	mm	Nm	–		–	mm	Nm	–	–	mm	Nm	–	–	mm	Nm
M6	3	7,8	**P13**	–	M16	14	225	**F13**	M24	19	712	–	–	–	–
M6	3	7,8	**P34**	–	M20	17	420	**F34**	M24	19	712	–	–	–	–
M10	5	30	**P61**	–	M24	19	712	–	–	–	–	–	–	–	–
M6	3	7,8	**P12**	–	M16	14	225	**F12**	M20	17	420	–	–	–	–
M6	3	7,8	**P13**	–	M16	14	225	**F13**	M24	19	712	–	–	–	–
M6	3	7,8	**P34**	–	M20	17	420	**F34**	M24	19	712	–	–	–	–
M10	5	30	**P61**	–	M24	19	712	–	–	–	–	–	–	–	–
M6	3	7,8	**P12**	–	M16	14	225	**F12**	M20	17	420	–	–	–	–
M6	3	7,8	**P13**	–	M16	14	225	**F13**	M24	19	712	–	–	–	–
M6	3	7,8	**P34**	–	M20	17	420	**F34**	M24	19	712	–	–	–	–
M10	5	30	**P61**	–	M24	19	712	–	–	–	–	–	–	–	–
M6	3	7,8	**P12**	–	M16	14	225	**F12**	M20	17	420	–	–	–	–
M6	3	7,8	**P13**	–	M16	14	225	**F13**	M24	19	712	–	–	–	–
M6	3	7,8	**P34**	–	M20	17	420	**F34**	M24	19	712	–	–	–	–
M10	5	30	**P61**	–	M24	19	712	–	–	–	–	–	–	–	–
M6	3	7,8	**P13**	–	M16	14	225	**F13**	M24	19	712	–	–	–	–
M6	3	7,8	**P14**	–	M16	14	225	**F14**	M24	19	712	–	–	–	–
M6	3	7,8	**P35**	–	M20	17	420	**F35**	M24	19	712	–	–	–	–
M10	5	30	**P62**	–	M20	17	420	–	–	–	–	–	–	–	–
M6	3	7,8	**P14**	–	M16	14	225	**F14**	M24	19	712	–	–	–	–
M6	3	7,8	**P35**	–	M20	17	420	**F35**	M24	19	712	–	–	–	–
M10	5	30	**P62**	–	M20	17	420	–	–	–	–	–	–	–	–
M6	3	7,8	**P14**	–	M16	14	225	**F14**	M24	19	712	–	–	–	–
M6	3	7,8	**P35**	–	M20	17	420	**F35**	M24	19	712	–	–	–	–
M6	3	7,8	**P15**	–	M20	17	420	**F15**	M24	19	712	–	–	–	–
M10	5	30	**P36**	–	M20	17	420	**F36**	M24	19	712	–	–	–	–
M10	5	30	**P63**	–	M20	17	420	–	–	–	–	–	–	–	–
M6	3	7,8	**P15**	–	M20	17	420	**F15**	M24	19	712	–	–	–	–
M10	5	30	**P36**	–	M20	17	420	**F36**	M24	19	712	–	–	–	–
M10	5	30	**P63**	–	M20	17	420	–	–	–	–	–	–	–	–
M6	3	7,8	**P15**	–	M20	17	420	**F15**	M24	19	712	–	–	–	–
M10	5	30	**P36**	–	M20	17	420	**F36**	M24	19	712	–	–	–	–
M10	5	30	**P63**	–	M20	17	420	–	–	–	–	–	–	–	–
–	–	–	**P15**	–	M20	17	420	**F15**	M24	19	712	–	–	–	–
M6	3	7,8	**P15**	–	M20	17	420	**F15**	M24	19	712	–	–	–	–
M10	5	30	**P16**	–	M20	17	420	**F36**	M24	19	712	–	–	–	–
–	–	–	**P36**	–	M20	17	420	**F16**	M24	19	712	–	–	–	–
M10	5	30	**P36**	–	M20	17	420	**F16**	M24	19	712	–	–	–	–
–	–	–	**P63**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P63**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P16**	–	M20	17	420	**F16**	M24	19	712	–	–	–	–
M10	5	30	**P16**	–	M20	17	420	**F16**	M24	19	712	–	–	–	–
M10	5	30	**P16**	–	M20	17	420	**F16**	M24	19	712	–	–	–	–
M10	5	30	**P37**	–	M20	17	420	**F37**	M24	19	712	–	–	–	–
M10	5	30	**P83**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P16**	–	M20	17	420	**F16**	M24	19	712	–	–	–	–
M10	5	30	**P37**	–	M20	17	420	**F37**	M24	19	712	–	–	–	–
M10	5	30	**P83**	–	M20	17	420	–	–	–	–	–	–	–	–

Screw sizes, key sizes, and tightening torques – split cylindrical roller bearings

Shaft diameter	Designation			Screw sizes, key sizes, and tightening torques								
	Bearing	Cartridge with felt / grease groove seals	Cartridge for labyrinth seals	Clamping ring screw			Cartridge joint screw			Cartridge radial screw		
				Screw size	Key size (A/F)	Torque	Screw size	Key size (A/F)	Torque	Screw size	Key size (A/F)	Torque
mm/*in.*	–			–	mm	Nm	–	mm	Nm	–	mm	Nm
290	**01EB290M**	**01C290M**	**01C17**	M10	8	70	M10	8	52,5	M10	8	35
	03B290M	**03C290M**	**03C65**	M20	17	560	M20	17	420	M12	10	60
300	**01EB300M**	**01C300M**	**01C17**	M10	8	70	M10	8	52,5	M10	8	35
	02EB300M	**02C300M**	**02C38**	M16	14	300	M16	14	225	M10	8	35
	03B300M	**03C300M**	**03C65**	M20	17	560	M20	17	420	M12	10	60
12	**01EB1200**	**01C1200**	**01C17**	M10	8	70	M10	8	52,5	M10	8	35
	02EB1200	**02C1200**	**02C38**	M16	14	300	M16	14	225	M10	8	35
	03B1200	**03C1200**	**03C65**	M20	17	560	M20	17	420	M12	10	60
320	**01B320M**	**01C320M**	**01C18**	M12	10	120	M12	10	90	M10	8	35
	02B320M	**02C320M**	**02C39**	M16	14	300	M16	14	225	M10	8	35
	03B320M	**03C320M**	**03C66**	M20	17	560	M20	17	420	M12	10	60
330	**01B330M**	**01C330M**	**01C18**	M12	10	120	M12	10	90	M10	8	35
	02B330M	**02C330M**	**02C39**	M16	14	300	M16	14	225	M10	8	35
13	**01B1300**	**01C1300**	**01C18**	M12	10	120	M12	10	90	M10	8	35
	02B1300	**02C1300**	**02C39**	M16	14	300	M16	14	225	M10	8	35
	03B1300	**03C1300**	**03C66**	M20	17	560	M20	17	420	M12	10	60
340	**01B340MEX13**	**01C340MEX12**	**01C18EX**	M12	10	120	M12	10	90	M10	8	35
	01B340MGR	**01C340MGR11**	**01C18GR**	M12	10	120	M12	10	90	M10	8	35
	01B340M	**01C340M**	**01C19**	M12	10	120	M12	10	90	M10	8	35
	02B340M	**02C340M**	**02C40**	M16	14	300	M16	14	225	M12	10	60
	03EB340M	**03C340M**	**03C86**	M24	19	950	M20	17	420	M12	10	60
350	**01B350M**	**01C350M**	**01C19**	M12	10	120	M12	10	90	M10	8	35
	02B350M	**02C350M**	**02C40**	M16	14	300	M16	14	225	M12	10	60
14	**01B1400**	**01C1400**	**01C19**	M12	10	120	M12	10	90	M10	8	35
	02B1400	**02C1400**	**02C40**	M16	14	300	M16	14	225	M12	10	60
	03EB1400	**03C1400**	**03C86**	M24	19	950	M20	17	420	M12	10	60
360	**01B360MEX15**	**01C360MEX13**	**01C19EX**	M12	10	120	M12	10	90	M10	8	35
	01B360MGR15	**01C360MGR16**	**01C19GR**	M12	10	120	M12	10	90	M10	8	35
	01B360M	**01C360M**	**01C20**	M16	14	300	M16	14	225	M12	10	60
	02B360M	**02C360M**	**02C40**	M16	14	300	M16	14	225	M12	10	60
	03EB360M	**03C360M**	**03C86**	M24	19	950	M20	17	420	M12	10	60
380	**01B380M**	**01C380M**	**01C20**	M12	10	120	M12	10	90	M10	8	35
	02B380M	**02C380M**	**02C41**	M16	14	300	M16	14	225	M12	10	60
	03B380M	**03C380M**	**03C68**	M24	19	950	M20	17	420	M12	10	60
15	**01B1500**	**01C1500**	**01C20**	M12	10	120	M12	10	90	M10	8	35
	02B1500	**02C1500**	**02C41**	M16	14	300	M16	14	225	M12	10	60
	03B1500	**03C1500**	**03C68**	M24	19	950	M20	17	420	M12	10	60
390	**01B390M**	**01C390M**	**01C21**	M12	10	120	M12	10	90	M10	8	35
400	**01B400M**	**01C400M**	**01C21**	M12	10	120	M12	10	90	M10	8	35
	02B400M	**02C400M**	**02C42**	M16	14	300	M16	14	225	M12	10	60
	03B400M	**03C400M**	**03C68**	M24	19	950	M20	17	420	M12	10	60
16	**01B1600**	**01C1600**	**01C21**	M12	10	120	M12	10	90	M10	8	35
	02B1600	**02C1600**	**02C42**	M16	14	300	M16	14	225	M12	10	60
420	**01B420M**	**01C420M**	**01C22**	M12	10	120	M12	10	90	M10	8	35
	02B420M	**02C420 M**	**02C43**	M16	14	300	M16	14	225	M12	10	60
	03EB420M	**03C420M**	**03C89**	M24	19	950	M20	17	420	M12	10	60

cont. table 18

Cartridge side screw			Plummer block / Take-up housing joint screw					Flanged housing joint screw				Hanger housing joint screw			
Screw size	Key size (A/F)	Torque	Designation		Screw size	Key size (A/F)	Torque	Desig-nation	Screw size	Key size (A/F)	Torque	Designa-tion	Screw size	Key size (A/F)	Torque
–	mm	Nm	–		–	mm	Nm	–	–	mm	Nm	–	–	mm	Nm
M10	5	30	**P17**	–	M20	17	420	**F17**	M24	19	712	–	–	–	–
M10	5	30	**P65**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P17**	–	M20	17	420	**F17**	M24	19	712	–	–	–	–
M10	5	30	**P38**	–	M20	17	420	**F38**	M24	19	712	–	–	–	–
M10	5	30	**P65**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P17**	–	M20	17	420	**F17**	M24	19	712	–	–	–	–
M10	5	30	**P38**	–	M20	17	420	**F38**	M24	19	712	–	–	–	–
M10	5	30	**P65**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P18**	–	M20	17	420	**F18**	M24	19	712	–	–	–	–
M10	5	30	**P39**	–	M20	17	420	**F39**	M24	19	712	–	–	–	–
M10	5	30	**P66**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P18**	–	M20	17	420	**F18**	M24	19	712	–	–	–	–
M10	5	30	**P39**	–	M20	17	420	**F39**	M24	19	712	–	–	–	–
M10	5	30	**P18**	–	M20	17	420	**F18**	M24	19	712	–	–	–	–
M10	5	30	**P39**	–	M20	17	420	**F39**	M24	19	712	–	–	–	–
M10	5	30	**P66**	–	M24	19	712	–	–	–	–	–	–	–	–
–	–	–	**P18**	–	M20	17	420	**F18**	M24	19	712	–	–	–	–
M10	5	30	**P18**	–	M20	17	420	**F18**	M24	19	712	–	–	–	–
M10	5	30	**P19**	–	M20	17	420	**F19**	M24	19	712	–	–	–	–
M10	5	30	**P40**	–	M20	17	420	–	–	–	–	–	–	–	–
M16	8	125	**P86**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P19**	–	M20	17	420	**F19**	M24	19	712	–	–	–	–
M10	5	30	**P40**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P19**	–	M20	17	420	**F19**	M24	19	712	–	–	–	–
M10	5	30	**P40**	–	M20	17	420	–	–	–	–	–	–	–	–
M16	8	125	**P86**	–	M24	19	712	–	–	–	–	–	–	–	–
–	–	–	**P19**	–	M20	17	420	**F19**	M24	19	712	–	–	–	–
M10	5	30	**P19**	–	M20	17	420	**F19**	M24	19	712	–	–	–	–
			P20	–	M20	17	420	**F20**	M24	19	712	–	–	–	–
M10	5	30	**P40**	–	M20	17	420	–	–	–	–	–	–	–	–
M16	8	125	**P86**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P20**	–	M20	17	420	**F20**	M24	19	712	–	–	–	–
M10	5	30	**P41**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P68**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P20**	–	M20	17	420	**F20**	M24	19	712	–	–	–	–
M10	5	30	**P41**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P68**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P21**	–	M20	17	420	**F21**	M24	19	712	–	–	–	–
M10	5	30	**P21**	–	M20	17	420	**F21**	M24	19	712	–	–	–	–
M10	5	30	**P42**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P68**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P21**	–	M20	17	420	**F21**	M24	19	712	–	–	–	–
M10	5	30	**P42**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P22**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P43**	–	M24	19	712	–	–	–	–	–	–	–	–
M16	8	125	**P89**	–	M24	19	712	–	–	–	–	–	–	–	–

Screw sizes, key sizes, and tightening torques – split cylindrical roller bearings

Shaft diameter	Designation			Screw sizes, key sizes, and tightening torques								
	Bearing	Cartridge with felt / grease groove seals	Cartridge for labyrinth seals	Clamping ring screw			Cartridge joint screw			Cartridge radial screw		
				Screw size	Key size (A/F)	Torque	Screw size	Key size (A/F)	Torque	Screw size	Key size (A/F)	Torque
mm/*in.*	–			–	mm	Nm	–	mm	Nm	–	mm	Nm
17	**01B1700**	**01C1700**	**01C22**	M12	10	120	M12	10	90	M10	8	35
	02B1700	**02C1700**	**02C43**	M16	14	300	M16	14	225	M12	10	60
	03EB1700	**03C1700**	**03C89**	M24	19	950	M20	17	420	M12	10	60
440	**01B440M**	**01C440M**	**01C23**	M12	10	120	M12	10	90	M10	8	35
	02B440M	**02C440M**	**02C44**	M16	14	300	M16	14	225	M12	10	60
	03EB440M	**03C440M**	**03C89**	M24	19	950	M20	17	420	M12	10	60
18	**01B1800**	**01C1800**	**01C23**	M12	10	120	M12	10	90	M10	8	35
	02B1800	**02C1800**	**02C44**	M16	14	300	M16	14	225	M12	10	60
	03EB1800	**03C1800**	**03C90**	M24	19	950	M20	17	420	M12	10	60
460	**01B460M**	**01C460M**	**01C23**	M12	10	120	M12	10	90	M10	8	35
	02B460M	**02C460M**	**02C44**	M16	14	300	M16	14	225	M12	10	60
	03EB460M	**03C460M**	**03C90**	M24	19	950	M20	17	420	M12	10	60
480	**01B480M**	**01C480M**	**01C24**	M12	10	120	M12	10	90	M10	8	35
	02B480M	**02C480M**	**02C45**	M20	17	560	M20	17	420	M12	10	60
19	**01B1900**	**01C1900**	**01C24**	M12	10	120	M12	10	90	M10	8	35
	02B1900	**02C1900**	**02C45**	M20	17	560	M20	17	420	M12	10	60
500	**01B500M**	**01C500M**	**01C25**	M16	14	300	M16	14	225	M12	10	60
	02B500M	**02C500M**	**02C46**	M20	17	560	M20	17	420	M12	10	60
	03B500M	**03C500M**	**03C94**	M24	19	950	M20	17	420	M16	14	150
20	**01B2000**	**01C2000**	**01C25**	M16	14	300	M16	14	225	M12	10	60
	02B2000	**02C2000**	**02C46**	M20	17	560	M20	17	420	M12	10	60
	03B2000	**03C2000**	**03C94**	M24	19	950	M20	17	420	M16	14	150
530	**01B530M**	**01C530M**	**01C26**	M16	14	300	M16	14	225	M12	10	60
	02B530M	**02C530M**	**02C47**	M20	17	560	M20	17	420	M12	10	60
	03B530M	**03C530M**	**03C94**	M24	19	950	M20	17	420	M16	14	150
21	**01B2100**	**01C2100**	**01C26**	M16	14	300	M16	14	225	M12	10	60
	02B2100	**02C2100**	**02C47**	M20	17	560	M20	17	420	M12	10	60
22	**01B2200**	**01C2200**	**01C27**	M16	14	300	M16	14	225	M12	10	60
	02B2200	**02C2200**	**02C48**	M20	17	560	M20	17	420	M12	10	60
	03EB2200	**03C2200**	**03C94**	M24	19	950	M20	17	420	M12	10	60
560	**01B560M**	**01C560M**	**01C27**	M16	14	300	M16	14	225	M12	10	60
	02B560M	**02C560M**	**02C48**	M20	17	560	M20	17	420	M12	10	60
	03EB560M	**03C560M**	**03C94**	M24	19	950	M20	17	420	M12	10	60
580	**01B580M**	**01C580M**	**01C28**	M16	14	300	M16	14	225	M12	10	60
	02B580M	**02C580M**	**02C49**	M20	17	560	M20	17	420	M12	10	60
23	**01B2300**	**01C2300**	**01C28**	M16	14	300	M16	14	225	M12	10	60
	02B2300	**02C2300**	**02C49**	M20	17	560	M20	17	420	M12	10	60
	03EB2300	**03C2300**	**03C95**	M24	19	950	M20	17	420	M12	10	60
600	**01B600M**	**01C600M**	**01C29**	M16	14	300	M16	14	225	M12	10	60
	02B600M	**02C600M**	**02C50**	M20	17	560	M20	17	420	M12	10	60
	03EB600M	**03C600M**	**03C95**	M24	19	950	M20	17	420	M12	10	60
24	**01B2400**	**01C2400**	**01C29**	M16	14	300	M16	14	225	M12	10	60
	02B2400	**02C2400**	**02C50**	M20	17	560	M20	17	420	M12	10	60

cont. table 18

Cartridge side screw			Plummer block / Take-up housing joint screw					Flanged housing joint screw				Hanger housing joint screw			
Screw size	Key size (A/F)	Torque	Designation		Screw size	Key size (A/F)	Torque	Desig-nation	Screw size	Key size (A/F)	Torque	Designa-tion	Screw size	Key size (A/F)	Torque
–	mm	Nm	–		–	mm	Nm	–	–	mm	Nm	–	–	mm	Nm
M10	5	30	**P22**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P43**	–	M24	19	712	–	–	–	–	–	–	–	–
M16	8	125	**P89**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P23**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P44**	–	M24	19	712	–	–	–	–	–	–	–	–
M16	8	125	**P89**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P23**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P44**	–	M24	19	712	–	–	–	–	–	–	–	–
M16	8	125	**P90**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P23**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P44**	–	M24	19	712	–	–	–	–	–	–	–	–
M16	8	125	**P90**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P24**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P45**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P24**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P45**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P25**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P46**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P94**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P25**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P46**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P94**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P26**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P47**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P94**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P26**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P47**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P27**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P48**	–	M24	19	712	–	–	–	–	–	–	–	–
M16	8	125	**P94**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P27**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P48**	–	M24	19	712	–	–	–	–	–	–	–	–
M16	8	125	**P94**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P28**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P49**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P28**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P49**	–	M24	19	712	–	–	–	–	–	–	–	–
M16	8	125	**P95**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P29**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P50**	–	M24	19	712	–	–	–	–	–	–	–	–
M16	8	125	**P95**	–	M24	19	712	–	–	–	–	–	–	–	–
M10	5	30	**P29**	–	M20	17	420	–	–	–	–	–	–	–	–
M10	5	30	**P50**	–	M24	19	712	–	–	–	–	–	–	–	–

Screw sizes, key sizes, and tightening torques – split tapered roller bearings

Shaft diameter d_a	**Designation** Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals	**Screw sizes, key sizes, and tightening torques** Clamping ring screw Screw size	Key size (A/F)	Torque	Cartridge joint screw Screw size	Key size (A/F)	Torque
mm	–			–	mm	Nm	–	mm	Nm
75	**1DTB75M**	**1DTC75GR75M**	**1DTC75GR30TL**	M5	4	8,5	M6	5	11
80	**1DTB80M**	**1DTC80GR80M**	**1DTC80GR35TL**	M5	4	8,5	M10	8	52,5
90	**1DTB90M**	**1DTC90GR90M**	**1DTC90GR35TL**	M5	4	8,5	M10	8	52,5
100	**1DTB100M**	**1DTC100GR100M**	**1DTC100GR40TL**	M8	6	35	M10	8	52,5
110	**1DTB110M**	**1DTC110GR110M**	**1DTC110GR45TL**	M8	6	35	M12	10	90
120	**1DTB120M**	**1DTC120GR120M**	**1DTC120GR50TL**	M8	6	35	M10	8	52,5
130	**1DTB130M**	**1DTC140GR130M**	**1DTC140GR50TL**	M10	8	70	M10	8	52,5
140	**1DTB140M**	**1DTC140GR140M**	**1DTC140GR55TL**	M8	6	35	M10	8	52,5
150	**1DTB150M**	**1DTC160GR150M**	**1DTC160GR60TL**	M10	8	70	M10	8	52,5
160	**1DTB160M**	**1DTC160GR160M**	**1DTC160GR65TL**	M8	6	35	M10	8	52,5
180	**1DTB180M**	**1DTC180GR180M**	**1DTC180GR70TL**	M8	6	35	M10	8	52,5

Table 19

Cartridge side screw			Plummer block housing joint screw				Flanged housing joint screw			
Screw size	Key size (A/F)	Torque	Designation	Screw size	Key size (A/F)	Torque	Designation	Screw size	Key size (A/F)	Torque
–	mm	Nm	–	–	mm	Nm	–	–	mm	Nm
M6	3	7,8	**PN05**	M16	14	225	**FN05**	M12	10	90
M6	3	7,8	**PN06**	M16	14	225	**FN06**	M16	14	225
M6	3	7,8	**PN06**	M16	14	225	**FN06**	M16	14	225
M6	3	7,8	**PN07**	M20	17	420	**FN07**	M16	14	225
M6	3	7,8	**PN08**	M20	17	420	**FN08**	M20	17	420
M6	3	7,8	**PN08**	M20	17	420	**FN08**	M20	17	420
M6	3	7,8	**PN09**	M20	17	420	**FN09**	M20	17	420
M6	3	7,8	**PN09**	M20	17	420	**FN09**	M20	17	420
M10	5	30	**PN11**	M16	14	225	**FN11**	M20	17	420
M10	5	30	**PN11**	M16	14	225	**FN11**	M20	17	420
M10	5	30	**PN31**	M20	17	420	**FN31**	M24	19	712

2 Split cylindrical roller bearings

Split cylindrical roller bearings are designed to accommodate radial loads and are available either with or without outer ring flanges to fit different arrangements.

Designs and variants

SKF supplies split cylindrical roller bearings in two designs. They are manufactured as:

- locating bearings (**fig. 1**)
- non-locating bearings (**fig. 2**)

Locating bearings

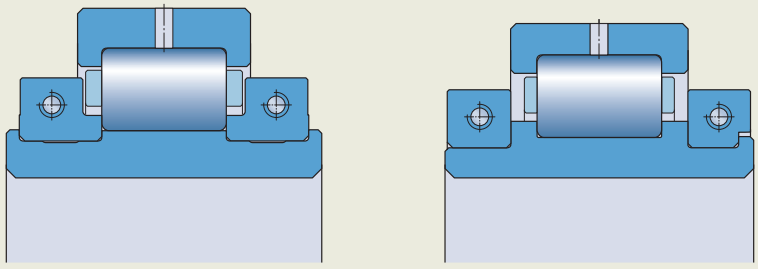
- have a split outer ring with integral flanges
- have a split inner ring clamped to the shaft with clamping rings
- have a split roller and cage assembly
- can withstand both radial and axial loads
- provide axial location
- are also known as fixed type bearings
- are identified by the designation suffix GR

Non-locating bearings

- have a split outer ring without flanges
- have a split inner ring clamped to the shaft with clamping rings
- have a split roller and cage assembly
- can withstand radial loads only
- can accommodate axial displacement when expansion or contraction occurs (offers virtually no resistance to axial movement as the rollers spiral through the outer ring raceway)
- are also known as expansion type bearings
- are identified by the designation suffix EX

Fig. 1

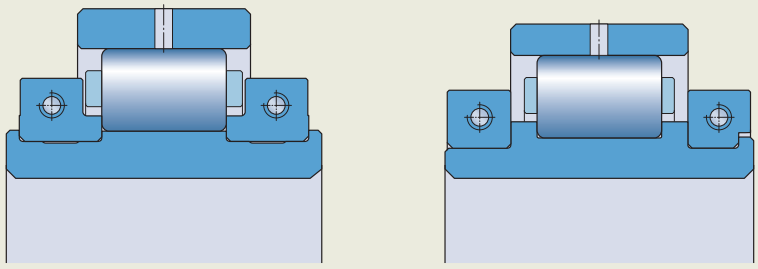
Locating bearings



D design C design

Fig. 2

Non-locating bearings



D design C design

Table 1

Standard assortment – split cylindrical roller bearings

Bearing series	Shaft diameter, d_a			
	Locating bearings in the		Non-locating bearings in the	
	D design	C design	D design	C design
–	mm/*in.*			
100	all sizes	–	all sizes	–
01/01E	≤ 300 / *12*	> 300 / *12*	≤ 300 / *12*	> 300 / *12*
02/02E	≤ 300 / *12*	> 300 / *12*	≤ 300 / *12*	> 300 / *12*
03/03E	≤ 155 / *6*	> 155 / *6*	≤ 155 / *6*	> 155 / *6*

Standard assortment

- four different series (**table 1**):
  - 100 series: compact (for high speeds)
  - 01/01E series: medium duty
  - 02/02E series: heavy duty
  - 03/03E series: very heavy duty
- fitted with one of the cages shown in **table 2**

Large size bearings

- have a bore diameter d > 600 mm (*24 in.*)
- are manufactured as:
  - locating bearings (designation suffix GR)
  - non-locating bearings (designation suffix EX)
- can be customized and modified to suit specific application requirements
- are available on request

Some popular large size bearings are shown in the **product table** on **page 98**. The information is provided as a guideline only as the bearings are often modified to suit specific application requirements. Bearings in the extra expansion design (designation suffix EXILOG) typically have different overall dimensions compared to the standard large size bearings. Other bearing options are also available, as outlined under *Designations* on **page 186**.

04 series bearings

- are light duty
- are manufactured as
  - locating bearings (designation suffix GR)
  - non-locating bearings (designation suffix EX)
- are suitable for high speeds
- can be modified to omit the high speed features as an economical solution for slow speed applications
- can be customized and modified to suit specific application requirements
- are available on request

Some popular 04 series bearings are shown in the **product table** on **page 100**.

Housings

Split cylindrical roller bearings are suitable for various housing types, the most common being:

- plummer block housings (**product tables**, **page 108**)
- flanged housings (**product tables**, **page 150**)

For large size bearings, SKF can supply suitable standard housings including cartridges as well as customized housings on request. For existing housings, mounting tolerances are also available on request.

Typically, 04 series bearings are mounted in housings integrated in the structure of the machine. SKF can manufacture housings on request.

Internal clearance

- Normal for temperatures up to 100 °C *(210 °F)* provided the difference between the shaft and housing temperature is not more than 40 °C
- C3 and C5 for higher temperatures or greater temperature differentials
- reduced clearance (C2) for specific applications, e.g. for reciprocating or vibratory applications

Table 2

Cages – split cylindrical roller bearings

Bearing series	Material			
	Polyamide	Brass	Medium carbon steel	Die cast or machined aluminium alloy
100	Standard for d ≤ 150 mm or *6 in.*	Standard for d > 150 mm or *6 in.*	–	–
01, 02, 03/03E	–	Optional	–	Standard
01E	–	Standard for d > 105 mm or *4 in.*	Standard for d ≤ 105 mm or *4 in.*	–
02E	–	Standard for d > 150 mm or *6 in.*	–	–

Loads

Minimum load For additional information, → **page 13**	**Locating bearings** $F_{rm} = C/65$ **Non-locating bearings** $F_{rm} = C/120$	**Symbols** C basic dynamic load rating [kN] (→ **product tables**, **page 74**) f_d dynamic factor (**table 3**) F_r radial load [kN] F_a axial load [kN] F_{rm} minimum radial load [kN] P equivalent dynamic bearing load [kN] P_0 equivalent static bearing load [kN]
Equivalent dynamic bearing load For additional information, → **page 11**	**Locating and Non-locating bearings** $P = F_r f_d$ with maximun axial load of $Fa \leq 0,4F_r$	
Equivalent static bearing load For additional information, → **page 12**	$P_0 = F_r$	

Temperature limits

The permissible operating temperature for SKF split cylindrical roller bearings can be limited by:

- the dimensional stability of the bearing rings and rolling elements
- the cages
- the seals
- the lubricant

The permissible operating temperature for standard bearings is normally up to 100 °C. The lower limit of operating temperatures is normally defined by the used lubricant, refer to Lubrication section **page 21**.

Where temperatures outside the permissible range are expected, contact SKF. High temperature variants are available upon request.

Table 3

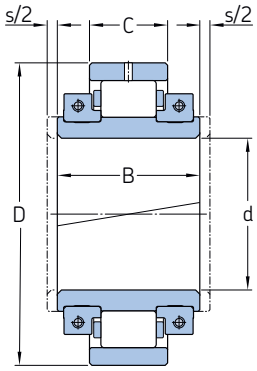
Dynamic factor

Conditions	f_d
Steady loads or small fluctuations	1 – 1,3
Light impact loads	1,3 – 2
Heavy impact loads, vibration or reciprocation	2 – 3,5

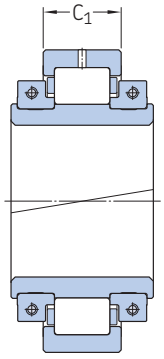
2.1 Split cylindrical roller bearings and cartridges

d_a **35 – 60** mm

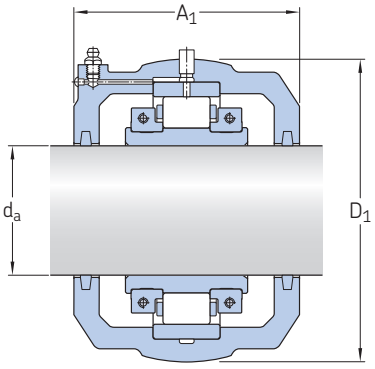
1 3/16 – 2 1/4 *in.*



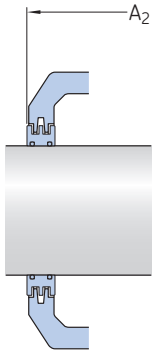
Non-locating



Locating



Felt seals



Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

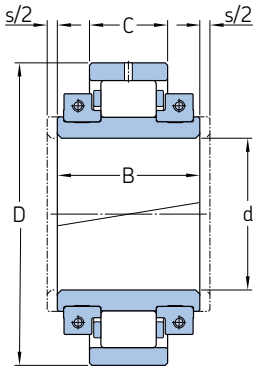
d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
1 3/16	84,14	50,1	23,8	23,8	3,5	100	86	86
1 1/4	84,14	50,1	23,8	23,8	3,5	100	86	86
35	84,14	50,1	23,8	23,8	3,5	100	86	86
1 7/16	84,14	50,1	23,8	23,8	3,5	100	86	86
1 1/2	84,14	50,1	23,8	23,8	3,5	100	86	86
40	84,14	50,1	23,8	23,8	3,5	100	86	86
1 11/16	98,42	55,7	25,4	25,4	4	117,48	98	98
1 3/4	98,42	55,7	25,4	25,4	4	117,48	98	98
45	98,42	55,7	25,4	25,4	4	117,48	98	98
1 15/16	98,42 107,95	55,7 67,5	25,4 35	25,4 35	4 5	117,48 134,94	98 114	98 114
50	98,42 107,95	55,7 67,5	25,4 35	25,4 35	4 5	117,48 134,94	98 114	98 114
2	98,42 107,95	55,7 67,5	25,4 35	25,4 35	4 5	117,48 134,94	98 114	98 114
55	114,3	55,7	27	27	4,5	134,94	104	104
2 3/16	114,3 127	55,7 72,3	27 38,9	27 38,9	4,5 5,5	134,94 157,16	104 126	104 126
2 1/4	114,3 127	55,7 72,3	27 38,9	27 38,9	4,5 5,5	134,94 157,16	104 126	104 126
60	114,3 127	55,7 72,3	27 38,9	27 38,9	4,5 5,5	134,94 157,16	104 126	104 126

[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

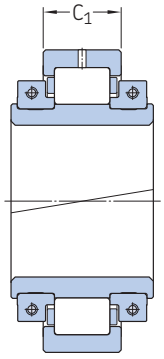
Shaft diameter	Load ratings dynamic	static	axial	Limiting speed	Mass Bearing	Cartridge	Designations[2] Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
1 3/16	81	86	3,6	5 400	1,2	2	**01EB103**	–	**01C1**
1 1/4	81	86	3,6	5 400	1,2	2	**01EB104**	–	**01C1**
35	81	86	3,6	5 400	1,2	2	**01EB35M**	–	**01C1**
1 7/16	81	86	3,6	5 400	1,2	2	**01EB107**	–	**01C1**
1 1/2	81	86	3,6	5 400	1,2	2	**01EB108**	**01C108**	**01C1**
40	81	86	3,6	5 400	1,2	2	**01EB40M**	**01C40M**	**01C1**
1 11/16	95	105	3,8	4 630	1,5	2,5	**01EB111**	**01C111**	**01C2**
1 3/4	95	105	3,8	4 630	1,5	2,5	**01EB112**	**01C112**	**01C2**
45	95	105	3,8	4 630	1,5	2,5	**01EB45M**	**01C45M**	**01C2**
1 15/16	95 139	105 152	3,8 9,3	4 630 4 350	1,5 2	2,5 4	**01EB115** **02EB115**	**01C115** **02C115**	**01C2** **02C3**
50	95 139	105 152	3,8 9,3	4 630 4 350	1,5 2	2,5 4	**01EB50M** **02EB50M**	**01C50M** **02C50M**	**01C2** **02C3**
2	95 139	105 152	3,8 9,3	4 630 4 350	1,5 2	2,5 4	**01EB200** **02EB200**	**01C200** **02C200**	**01C2** **02C3**
55	135	157	7,2	3 940	1,8	3,2	**01EB55M**	**01C55M**	**01C3**
2 3/16	135 179	157 205	7,2 13,5	3 940 3 680	1,8 3	3,2 7	**01EB203** **02EB203**	**01C203** **02C203**	**01C3** **02C4**
2 1/4	135 179	157 205	7,2 13,5	3 940 3 680	1,8 3	3,2 7	**01EB204** **02EB204**	**01C204** **02C204**	**01C3** **02C4**
60	135 179	157 205	7,2 13,5	3 940 3 680	1,8 3	3,2 7	**01EB60M** **02EB60M**	**01C60M** **02C60M**	**01C3** **02C4**

2.1 Split cylindrical roller bearings and cartridges

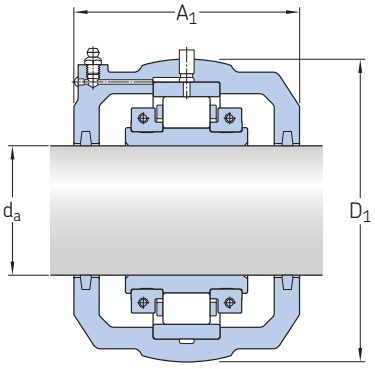
d_a **65 – 80** mm
2 7/16 – 3 1/4 *in.*



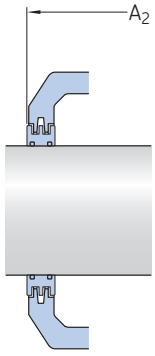
Non-locating



Locating



Felt seals



Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
2 7/16	114,3 127	55,7 72,3	27 38,9	27 38,9	4,5 5,5	134,94 157,16	104 126	104 126
2 1/2	114,3 127	55,7 72,3	27 38,9	27 38,9	4,5 5,5	134,94 157,16	104 126	104 126
65	114,3 127	55,7 72,3	27 38,9	27 38,9	4,5 5,5	134,94 157,16	104 126	104 126
2 11/16	133,35 149,22	61,2 82,6	31,8 46,1	31,8 46,1	5 6	157,16 177,8	114 140	114 140
2 3/4	133,35 149,22	61,2 82,6	31,8 46,1	31,8 46,1	5 6	157,16 177,8	114 140	114 140
70	133,35 149,22	61,2 82,6	31,8 46,1	31,8 46,1	5 6	157,16 177,8	114 140	114 140
2 15/16	114,3 133,35 149,22	48 61,2 82,6	27 31,8 46,1	27 31,8 46,1	3,5 5 6	134,94 157,16 177,8	104 114 140	104 114 140
75	114,3 133,35 149,22	48 61,2 82,6	27 31,8 46,1	27 31,8 46,1	3,5 5 6	134,94 157,16 177,8	104 114 140	104 114 140
3	114,3 133,35 149,22	48 61,2 82,6	27 31,8 46,1	27 31,8 46,1	3,5 5 6	134,94 157,16 177,8	104 114 140	104 114 140
80	152,4 169,86	70,7 89,7	38,9 48,4	38,9 48,4	6 7	177,8 203,2	136 154	136 154
3 3/16	152,4 169,86	70,7 89,7	38,9 48,4	38,9 48,4	6 7	177,8 203,2	136 154	136 154
3 1/4	152,4 169,86	70,7 89,7	38,9 48,4	38,9 48,4	6 7	177,8 203,2	136 154	136 154

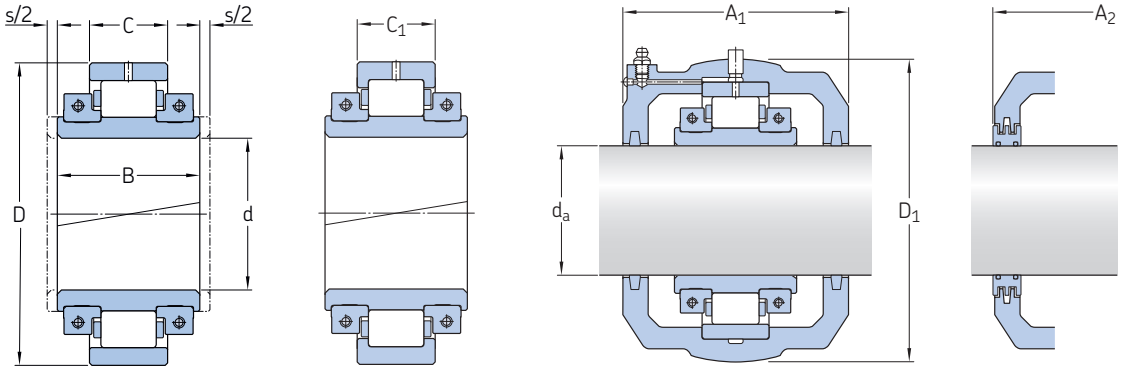
[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

Shaft diameter	Load ratings dynamic	static	axial	Limiting speed	Mass Bearing	Cartridge	Designations[2] Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
2 7/16	135	157	7,2	3 940	1,8	3,2	**01EB207**	**01C207**	**01C3**
	179	205	13,5	3 680	3	7	**02EB207**	**02C207**	**02C4**
2 1/2	135	157	7,2	3 940	1,8	3,2	**01EB208**	**01C208**	**01C3**
	179	205	13,5	3 680	3	7	**02EB208**	**02C208**	**02C4**
65	135	157	7,2	3 940	1,8	3,2	**01EB65M**	**01C65M**	**01C3**
	179	205	13,5	3 680	3	7	**02EB65M**	**02C65M**	**02C4**
2 11/16	166	197	10,8	3 310	2,5	5,5	**01EB211**	**01C211**	**01C4**
	264	330	13,7	3 080	5	9	**02EB211**	**02C211**	**02C5**
2 3/4	166	197	10,8	3 310	2,5	5,5	**01EB212**	**01C212**	**01C4**
	264	330	13,7	3 080	5	9	**02EB212**	**02C212**	**02C5**
70	166	197	10,8	3 310	2,5	5,5	**01EB70M**	**01C70M**	**01C4**
	264	330	13,7	3 080	5	9	**02EB70M**	**02C70M**	**02C5**
2 15/16	91	128	7	4 125	1,2	3,6	**100B215**	**100C215**	**100C3**
	166	197	10,8	3 310	2,5	5,5	**01EB215**	**01C215**	**01C4**
	264	330	13,7	3 080	5	9	**02EB215**	**02C215**	**02C5**
75	91	128	7	4 125	1,2	3,6	**100B75M**	**100C75M**	**100C3**
	166	197	10,8	3 310	2,5	5,5	**01EB75M**	**01C75M**	**01C4**
	264	330	13,7	3 080	5	9	**02EB75M**	**02C75M**	**02C5**
3	91	128	7	4 125	1,2	3,6	**100B300**	**100C300**	**100C3**
	166	197	10,8	3 310	2,5	5,5	**01EB300**	**01C300**	**01C4**
	264	330	13,7	3 080	5	9	**02EB300**	**02C300**	**02C5**
80	234	299	13,6	2 790	4	7	**01EB80M**	**01C80M**	**01C5**
	305	387	18,8	2 520	7	10	**02EB80M**	**02C80M**	**02C6**
3 3/16	234	299	13,6	2 790	4	7	**01EB303**	**01C303**	**01C5**
	305	387	18,8	2 520	7	10	**02EB303**	**02C303**	**02C6**
3 1/4	234	299	13,6	2 790	4	7	**01EB304**	**01C304**	**01C5**
	305	387	18,8	2 520	7	10	**02EB304**	**02C304**	**02C6**

2.1 Split cylindrical roller bearings and cartridges

d_a **85 – 100** mm

3 7/16 – 4 *in.*



Non-locating | Locating | Felt seals | Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
85	133,35	60	31,8	31,8	5	157,16	114	114
	152,4	70,7	38,9	38,9	6	177,8	136	136
	169,86	89,7	48,4	48,4	7	203,2	154	154
3 7/16	133,35	60	31,8	31,8	5	157,16	114	114
	152,4	70,7	38,9	38,9	6	177,8	136	136
	169,86	89,7	48,4	48,4	7	203,2	154	154
3 1/2	152,4	70,7	38,9	38,9	6	177,8	136	136
	169,86	89,7	48,4	48,4	7	203,2	154	154
90	152,4	70,7	38,9	38,9	6	177,8	136	136
	169,86	89,7	48,4	48,4	7	203,2	154	154
3 11/16	174,62	81	45,3	45,3	7	203,2	134	134
	193,68	92,1	51,6	51,6	8	231,78	146	146
95	174,62	81	45,3	45,3	7	203,2	134	134
3 3/4	174,62	81	45,3	45,3	7	203,2	134	134
	193,68	92,1	51,6	51,6	8	231,78	146	146
100	152,4	65	38,9	38,9	6	177,8	136	136
	174,62	81	45,3	45,3	7	203,2	134	134
	193,68	92,1	51,6	51,6	8	231,78	146	146
	254	136	84,2	84,2	11	308	200	206
3 15/16	152,4	65	38,9	38,9	6	177,8	136	136
	174,62	81	45,3	45,3	7	203,2	134	134
	193,68	92,1	51,6	51,6	8	231,78	146	146
	254	136	84,2	84,2	11	308	200	206
4	152,4	65	38,9	38,9	6	177,8	136	136
	174,62	81	45,3	45,3	7	203,2	134	134
	193,68	92,1	51,6	51,6	8	231,78	146	146
	254	136	84,2	84,2	11	308	200	206

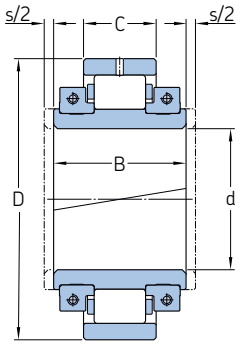
[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

Shaft diameter	Load ratings			Limiting speed	Mass		Designations[2]		
	dynamic	static	axial		Bearing	Cartridge	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
85	142	209	12,3	3 600	2,1	5,4	**100B85M**	**100C85M**	**100C4**
	234	299	13,6	2 790	4	7	**01EB85M**	**01C85M**	**01C5**
	305	387	18,8	2 520	7	10	**02EB85M**	**02C85M**	**02C6**
3 7/16	142	209	12,3	3 600	2,1	5,4	**100B307**	**100C307**	**100C4**
	234	299	13,6	2 790	4	7	**01EB307**	**01C307**	**01C5**
	305	387	18,8	2 520	7	10	**02EB307**	**02C307**	**02C6**
3 1/2	234	299	13,6	2 790	4	7	**01EB308**	**01C308**	**01C5**
	305	387	18,8	2 520	7	10	**02EB308**	**02C308**	**02C6**
90	234	299	13,6	2 790	4	7	**01EB90M**	**01C90M**	**01C5**
	305	387	18,8	2 520	7	10	**02EB90M**	**02C90M**	**02C6**
3 11/16	320	421	19,6	2 340	6	8	**01EB311**	**01C311**	**01C6**
	388	491	26,0	2 130	9	12	**02EB311**	**02C311**	**02C7**
95	320	421	19,6	2 340	6	8	**01EB95M**	**01C95M**	**01C6**
3 3/4	320	421	19,6	2 340	6	8	**01EB312**	**01C312**	**01C6**
	388	491	26,0	2 130	9	12	**02EB312**	**02C312**	**02C7**
100	191	288	18,3	3 090	2,8	7,4	**100B100M**	**100C100M**	**100C5**
	320	421	19,6	2 340	6	8	**01EB100M**	**01C100M**	**01C6**
	388	491	26,0	2 130	9	12	**02EB100M**	**02C100M**	**02C7**
	610	684	31,2	1 820	30	41	**03B100M**	**03C100M**	**03C54**
3 15/16	191	288	18,3	3 090	2,8	7,4	**100B315**	**100C315**	**100C5**
	320	421	19,6	2 340	6	8	**01EB315**	**01C315**	**01C6**
	388	491	26,0	2 130	9	12	**02EB315**	**02C315**	**02C7**
	610	684	31,2	1 820	30	41	**03B315**	**03C315**	**03C54**
4	191	288	18,3	3 090	2,8	7,4	**100B400**	**100C400**	**100C5**
	320	421	19,6	2 340	6	8	**01EB400**	**01C400**	**01C6**
	388	491	26,0	2 130	9	12	**02EB400**	**02C400**	**02C7**
	610	684	31,2	1 820	30	41	**03B400**	**03C400**	**03C54**

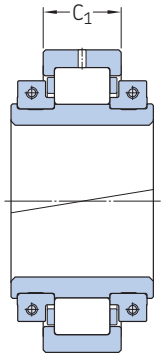
2.1 Split cylindrical roller bearings and cartridges

d_a **105 – 125** mm

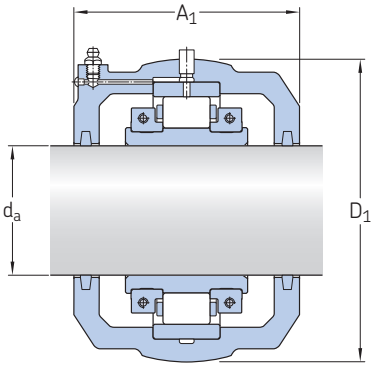
4 3/16 – 4 1/2 *in.*



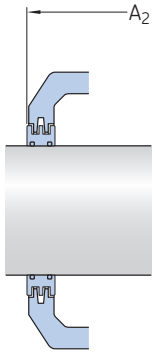
Non-locating



Locating



Felt seals



Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
105	174,62	81	45,3	45,3	7	203,2	134	134
	193,68	92,1	51,6	51,6	8	231,78	146	146
4 3/16	203,2	84,9	46,9	46,9	7	231,78	142	142
	228,6	100	57,2	57,2	9	266,7	162	162
110	174,62	80	45,3	45,3	7	203,2	134	134
	203,2	84,9	46,9	46,9	7	231,78	142	142
	228,6	100	57,2	57,2	9	266,7	162	162
	266,7	147	87,3	87,3	11	323,85	210	222
4 7/16	174,62	80	45,3	45,3	7	203,2	134	134
	203,2	84,9	46,9	46,9	7	231,78	142	142
	228,6	100	57,2	57,2	9	266,7	162	162
	266,7	147	87,3	87,3	11	323,85	210	222
4 1/2	174,62	80	45,3	45,3	7	203,2	134	134
	203,2	84,9	46,9	46,9	7	231,78	142	142
	228,6	100	57,2	57,2	9	266,7	162	162
	266,7	147	87,3	87,3	11	323,85	210	222
115	174,62	80	45,3	45,3	7	203,2	134	134
	203,2	84,9	46,9	46,9	7	231,78	142	142
	228,6	100	57,2	57,2	9	266,7	162	162
120	203,2	85	46,9	46,9	7	231,78	142	142
	222,25	89,7	54	54	7	266,7	156	156
	254	114,3	63,5	63,5	10	295,28	184	184
	266,7	147	87,3	87,3	11	323,85	210	222
125	203,2	85	46,9	46,9	7	231,78	142	142
	222,25	89,7	54	54	7	266,7	156	156
	254	114,3	63,5	63,5	10	295,28	184	184

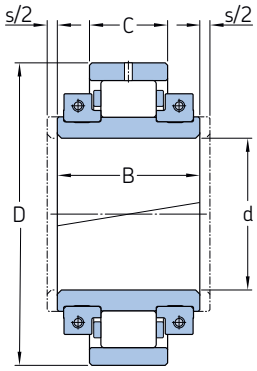
[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

Shaft diameter	Load ratings			Limiting speed	Mass		Designations[2]		
	dynamic	static	axial		Bearing	Cartridge	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
105	320	421	19,6	2 340	6	8	**01EB105M**	**01C105M**	**01C6**
	388	491	26,0	2 130	9	12	**02EB105M**	**02C105M**	**02C7**
4 3/16	306	407	18,6	1 970	10	12	**01B403**	**01C403**	**01C7**
	454	583	31,2	1 820	16	19	**02B403**	**02C403**	**02C8**
110	279	426	22,2	2 750	4,6	7,9	**100B110M**	**100C110M**	**100C6**
	334	446	20,9	1 970	10	12	**01EB110M**	**01C110M**	**01C7**
	498	628	43,6	1 820	16	19	**02EB110M**	**02C110M**	**02C8**
	614	698	39,2	1 640	36	46	**03B110M**	**03C110M**	**03C55**
4 7/16	279	426	22,2	2 750	4,6	7,9	**100B407**	**100C407**	**100C6**
	334	446	20,9	1 970	10	12	**01EB407**	**01C407**	**01C7**
	498	628	43,6	1 820	16	19	**02EB407**	**02C407**	**02C8**
	614	698	39,2	1 640	36	46	**03B407**	**03C407**	**03C55**
4 1/2	279	426	22,2	2 750	4,6	7,9	**100B408**	**100C408**	**100C6**
	334	446	20,9	1 970	10	12	**01EB408**	**01C408**	**01C7**
	498	628	43,6	1 820	16	19	**02EB408**	**02C408**	**02C8**
	614	698	39,2	1 640	36	46	**03B408**	**03C408**	**03C55**
115	279	426	22,2	2 750	4,6	7,9	**100B115M**	**100C115M**	**100C6**
	334	446	20,9	1 970	10	12	**01EB115M**	**01C115M**	**01C7**
	498	628	43,6	1 820	16	19	**02EB115M**	**02C115M**	**02C8**
120	280	433	23,8	2 480	7,4	11	**100B120M**	**100C120M**	**100C7**
	417	594	27,5	1 740	13	19,5	**01EB120M**	**01C120M**	**01C8**
	613	794	56,8	1 600	20	26	**02EB120M**	**02C120M**	**02C10**
	614	698	39,2	1 640	36	46	**03B120M**	**03C120M**	**03C55**
125	280	433	23,8	2 480	7,4	11	**100B125M**	**100C125M**	**100C7**
	417	594	27,5	1 740	13	19,5	**01EB125M**	**01C125M**	**01C8**
	613	794	56,8	1 600	20	26	**02EB125M**	**02C125M**	**02C10**

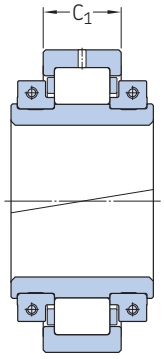
2.1 Split cylindrical roller bearings and cartridges

d_a **130 – 145** mm

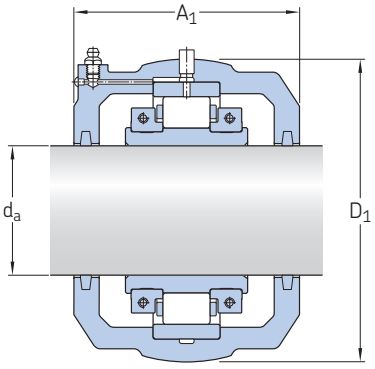
4 15/16 – 5 1/2 *in.*



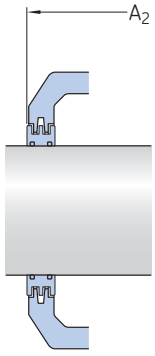
Non-locating



Locating



Felt seals



Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
4 15/16	203,2	85	46,9	46,9	7	231,78	142	142
	222,25	89,7	54	54	7	266,7	156	156
	254	114,3	63,5	63,5	10	295,28	184	184
	279,4	140	73,1	84,2	11	323,85	214	222
5	203,2	85	46,9	46,9	7	231,78	142	142
	222,25	89,7	54	54	7	266,7	156	156
	254	114,3	63,5	63,5	10	295,28	184	184
	279,4	140	73,1	84,2	11	323,85	214	222
130	203,2	85	46,9	46,9	7	231,78	142	142
	222,25	89,7	54	54	7	266,7	156	156
	254	114,3	63,5	63,5	10	295,28	184	184
	279,4	140	73,1	84,2	11	323,85	214	222
5 3/16	241,3	98,4	55,6	55,6	8	279,4	168	168
	273,05	117,5	66,7	66,7	10	323,85	188	188
135	241,3	98,4	55,6	55,6	8	279,4	168	168
5 7/16	222,25	90	54	54	7	266,7	156	156
	241,3	98,4	55,6	55,6	8	279,4	168	168
	273,05	117,5	66,7	66,7	10	323,85	188	188
	304,8	147	79,4	90,5	12	355,6	216	230
5 1/2	222,25	90	54	54	7	266,7	156	156
	241,3	98,4	55,6	55,6	8	279,4	168	168
	273,05	117,5	66,7	66,7	10	323,85	188	188
	304,8	147	79,4	90,5	12	355,6	216	230
140	222,25	90	54	54	7	266,7	156	156
	241,3	98,4	55,6	55,6	8	279,4	168	168
	273.05	117.5	66.7	66.7	10	323.85	188	188
	304.8	147	79.4	90,5	12	355.6	216	230
145	273,05	117,5	66,7	66,7	10	323,85	188	188

[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.

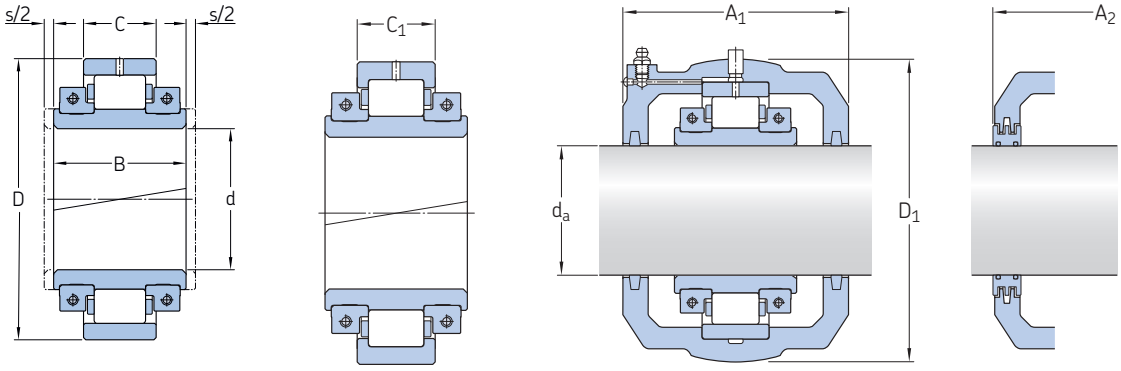
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

Shaft diameter	Load ratings			Limiting speed	Mass		Designations[2]		
	dynamic	static	axial		Bearing	Cartridge	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
4 15/16	280	433	23,8	2 480	7,4	11	**100B415**	**100C415**	**100C7**
	417	594	27,5	1 740	13	19,5	**01EB415**	**01C415**	**01C8**
	613	794	56,8	1 600	20	26	**02EB415**	**02C415**	**02C10**
	706	852	49	1 500	36	48	**03B415**	**03C415**	**03C56**
5	280	433	23,8	2 480	7,4	11	**100B500**	**100C500**	**100C7**
	417	594	27,5	1 740	13	19,5	**01EB500**	**01C500**	**01C8**
	613	794	56,8	1 600	20	26	**02EB500**	**02C500**	**02C10**
	706	852	49	1 500	36	48	**03B500**	**03C500**	**03C56**
130	280	433	23,8	2 480	7,4	11	**100B130M**	**100C130M**	**100C7**
	417	594	27,5	1 740	13	19,5	**01EB130M**	**01C130M**	**01C8**
	613	794	56,8	1 600	20	26	**02EB130M**	**02C130M**	**02C10**
	706	852	49	1 500	36	48	**03B130M**	**03C130M**	**03C56**
5 3/16	475	683	35,8	1 570	15	21	**01EB503**	**01C503**	**01C9**
	649	854	62,6	1 450	24	33	**02EB503**	**02C503**	**02C30**
135	394	542	25,8	1 570	15	21	**01B135M**	**01C135M**	**01C9**
5 7/16	331	520	30,5	2 250	9,3	18,5	**100B507**	**100C507**	**100C8**
	475	683	35,8	1 570	15	21	**01EB507**	**01C507**	**01C9**
	649	854	62,6	1 450	24	33	**02EB507**	**02C507**	**02C30**
	886	1 069	58,8	1 340	44	52	**03B507**	**03C507**	**03C57**
5 1/2	331	520	30,5	2 250	9,3	18,5	**100B508**	**100C508**	**100C8**
	475	683	35,8	1 570	15	21	**01EB508**	**01C508**	**01C9**
	649	854	62,6	1 450	24	33	**02EB508**	**02C508**	**02C30**
	886	1 069	58,8	1 340	44	52	**03B508**	**03C508**	**03C57**
140	331	520	30,5	2 250	9,3	18,5	**100B140M**	**100C140M**	**100C8**
	475	683	35,8	1 570	15	21	**01EB140M**	**01C140M**	**01C9**
	649	854	62,6	1 450	24	33	**02EB140M**	**02C140M**	**02C30**
	886	1 069	58,8	1 340	44	52	**03B140M**	**03C140M**	**03C57**
145	649	854	62,6	1 450	24	33	**02EB145M**	**02C145M**	**02C30**

2.1 Split cylindrical roller bearings and cartridges

d_a **150 – 160** mm

5 15/16 – 6 1/2 *in.*



Non-locating | Locating | Felt seals | Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
150	241,3	90	55,6	55,6	8	279,4	168	168
	254	98,4	55,6	55,6	8	295,28	174	174
	292,1	123,8	68,3	68,3	10	336,55	204	204
	330,2	160	81	96,9	13	393,7	232	254
5 15/16	241,3	90	55,6	55,6	8	279,4	168	168
	254	98,4	55,6	55,6	8	295,28	174	174
	292,1	123,8	68,3	68,3	10	336,55	204	204
	330,2	160	81	96,9	13	393,7	232	254
6	241,3	90	55,6	55,6	8	279,4	168	168
	254	98,4	55,6	55,6	8	295,28	174	174
	292,1	123,8	68,3	68,3	10	336,55	204	204
	330,2	160	81	96,9	13	393,7	232	254
155	254	98,4	55,6	55,6	8	295,28	174	174
	292,1	123,8	68,3	68,3	10	336,55	204	204
160	254	98,4	55,6	–	8	295,28	174	174
	254	98,4	–	55,6	–	295,28	174	174
	273,05	109	60,3	60,3	8	311,15	172	192
	292,1	123,8	68,3	–	10	336,55	204	204
	292,1	123,8	–	68,3	–	336,55	204	204
	317,5	140	83,3	83,3	11	368,3	206	232
	355,6	171	103,2	103,2	14	422,3	244	268
6 7/16	273,05	109	60,3	60,3	8	311,15	172	192
	317,5	140	83,3	83,3	11	368,3	206	232
	355,6	171	103,2	103,2	14	422,3	244	268
6 1/2	273,05	109	60,3	60,3	8	311,15	172	192
	317,5	140	83,3	83,3	11	368,3	206	232
	355,6	171	103,2	103,2	14	422,3	244	268

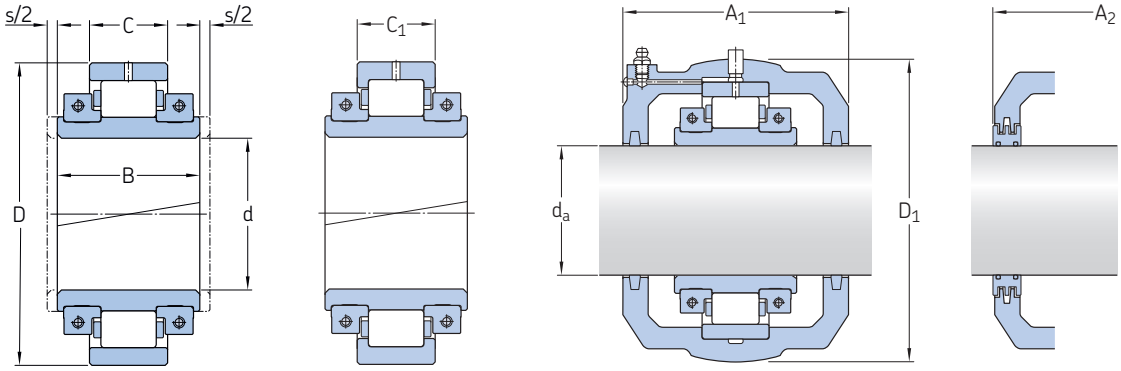
1) "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
2) Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.
3) Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

Shaft diameter	Load ratings			Limiting speed	Mass		Designations[2]		
	dynamic	static	axial		Bearing	Cartridge	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
150	397	606	31,4	2 060	10,5	19,5	**100B150M**	**100C150M**	**100C9**
	511	767	40,3	1 450	16,5	24,5	**01EB150M**	**01C150M**	**01C10**
	732	1 017	70,9	1 320	29	39	**02EB150M**	**02C150M**	**02C31**
	994	1 213	69,4	1 220	57	70	**03B150M**	**03C150M**	**03C58**
5 15/16	397	606	31,4	2 060	10,5	19,5	**100B515**	**100C515**	**100C9**
	511	767	40,3	1 450	16,5	24,5	**01EB515**	**01C515**	**01C10**
	732	1 017	70,9	1 320	29	39	**02EB515**	**02C515**	**02C31**
	994	1 213	69,4	1 220	57	70	**03B515**	**03C515**	**03C58**
6	397	606	31,4	2 060	10,5	19,5	**100B600**	**100C600**	**100C9**
	511	767	40,3	1 450	16,5	24,5	**01EB600**	**01C600**	**01C10**
	732	1 017	70,9	1 320	29	39	**02EB600**	**02C600**	**02C31**
	994	1 213	69,4	1 220	57	70	**03B600**	**03C600**	**03C58**
155	511	767	40,3	1 450	16,5	24,5	**01EB155M**	**01C155M**	**01C10**
	732	1 017	70,9	1 320	29	39	**02EB155M**	**02C155M**	**02C31**
160	511	767	–	1 450	16,5	24,5	**01EB160MEX10**[3]	**01C160MEX14**[3]	**01C10EX10**[3]
	511	767	40,3	1 450	16,5	24,5	**01EB160MGR10**[3]	**01C160MGR10**[3]	**01C10GR10**[3]
	511	767	40,3	1 320	21	30	**01EB160M**	**01C160M**	**01C11**
	732	1 017	–	1 320	29	39	**02EB160MEX10**[3]	**02C160MEX10**[3]	**02C31EX10**[3]
	732	1 017	70,9	1 320	29	39	**02EB160MGR10**[3]	**02C160MGR10**[3]	**02C31GR10**[3]
	732	1 017	70,9	1 200	39	56	**02EB160M**	**02C160M**	**02C32**
	1 156	1 564	79,2	1 110	72	81	**03B160M**	**03C160M**	**03C59**
6 7/16	594	863	56,5	1 320	21	30	**01EB607**	**01C607**	**01C11**
	887	1 262	71,2	1 200	39	56	**02EB607**	**02C607**	**02C32**
	1 156	1 564	79,2	1 110	72	81[3]	**03B607**	**03C607**	**03C59**
6 1/2	594	863	56,5	1 320	21	30	**01EB608**	**01C608**	**01C11**
	887	1 262	71,2	1 200	39	56	**02EB608**	**02C608**	**02C32**
	1 156	1 564	79,2	1 110	72	81	**03B608**	**03C608**	**03C59**

2.1 Split cylindrical roller bearings and cartridges

d_a **170 – 200** mm

6 15/16 – 7 15/16 *in.*



Non-locating | Locating | Felt seals | Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

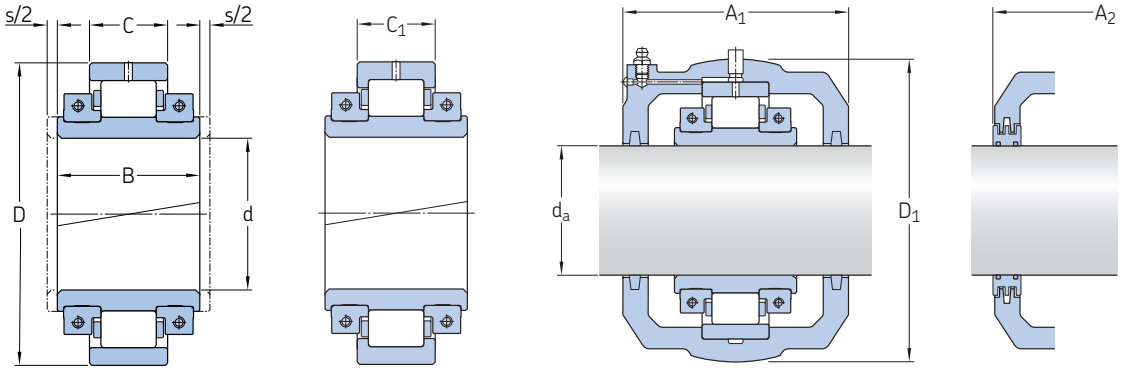
d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
170	273,05	109	60,3	–	8	311,15	172	192
	273,05	109	–	60,3	–	311,15	172	192
	285,75	109	55,5	55,5	8	323,85	172	200
	317,5	140	83,3	–	11	368,3	206	232
	317,5	140	–	83,3	–	368,3	206	232
	355,6	171	103,2	103,2	14	422,3	244	268
175	285,75	109	55,5	55,5	8	323,85	172	200
	330,2	140	83,3	83,3	11	381	222	242
6 15/16	285,75	109	55,5	55,5	8	323,85	172	200
	330,2	140	83,3	83,3	11	381	222	242
	374,65	178	92,1	108,8	15	431,8	254	284
7	285,75	109	55,5	55,5	8	323,85	172	200
	330,2	140	83,3	83,3	11	381	222	242
	374,65	178	92,1	108,8	15	431,8	254	284
180	285,75	109	55,5	55,5	8	323,85	172	200
	330,2	140	83,3	83,3	11	381	222	242
	374,65	178	92,1	108,8	15	431,8	254	284
190	311,15	109	60,3	60,3	8	358,78	172	200
	368,3	156	90,5	90,5	13	425,5	235	258
	419,1	191	97,7	118,3	16	489	270	300
200	285,75	109	55,5	55,5	6	323,85	172	[4]
	311,15	109	60,3	60,3	8	358,78	172	200
	368,3	156	90,5	90,5	13	425,5	235	258
	419,1	191	97,7	118,3	16	489	270	300
7 15/16	285,75	109	55,5	55,5	6	323,85	172	[4]
	311,15	109	60,3	60,3	8	358,78	172	200
	368,3	156	90,5	90,5	13	425,5	235	258
	419,1	191	97,7	118,3	16	489	270	300

[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.
[3] Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.
[4] Contact SKF.

Shaft diameter	Load ratings			Limiting speed	Mass		Designations[2]		
	dynamic	static	axial		Bearing	Cartridge	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
170	594	863	–	1 320	21	30	**01EB170MEX13**[3]	**01C170MEX13**[3]	**01C11EX10**[3]
	594	863	56,5	1 320	21	30	**01EB170MGR14**[3]	**01C170MGR15**[3]	**01C11GR10**[3]
	557	845	52,2	1 220	23	31	**01EB170M**	**01C170M**	**01C12**
	887	1 262	–	1 200	39	56	**02EB170M**	**02C170M**	**02C32EX10**[3]
	887	1 262	71,2	1 200	39	56	**02EB170M**	**02C170M**	**02C32GR10**[3]
	1 156	1 564	79,2	1 110	72	81	**03B170M**	**03C170M**	**03C59**
175	557	845	52,2	1 220	23	31	**01EB175M**	**01C175M**	**01C12**
	936	1 334	82,8	1 120	45	66	**02EB175M**	**02C175M**	**02C33**
6 15/16	557	845	52,2	1 220	23	31	**01EB615**	**01C615**	**01C12**
	936	1 334	82,8	1 120	45	66	**02EB615**	**02C615**	**02C33**
	1 242	1 704	89	1 030	79	87	**03B615**	**03C615**	**03C60**
7	557	845	52,2	1 220	23	31	**01EB700**	**01C700**	**01C12**
	936	1 334	82,8	1 120	45	66	**02EB700**	**02C700**	**02C33**
	1 242	1 704	89	1 030	79	87	**03B700**	**03C700**	**03C60**
180	557	845	52,2	1 220	23	31	**01EB180M**	**01C180M**	**01C12**
	936	1 334	82,8	1 120	45	66	**02EB180M**	**02C180M**	**02C33**
	1 242	1 704	89	1 030	79	87	**03B180M**	**03C180M**	**03C60**
190	679	1 078	72,5	1 070	25	41	**01EB190M**	**01C190M**	**01C13**
	1 137	1 627	122	960	59	84	**02EB190M**	**02C190M**	**02C34**
	1 451	2 022	99,6	880	105	109	**03B190M**	**03C190M**	**03C61**
200	325	571	48	1 070	18	24	**100B200M**	**100C200M**	[4]
	679	1 078	72,5	1 070	25	41	**01EB200M**	**01C200M**	**01C13**
	1 137	1 627	122	960	59	84	**02EB200M**	**02C200M**	**02C34**
	1 451	2 022	99,6	880	105	109	**03B200M**	**03C200M**	**03C61**
7 15/16	325	571	48	1 070	18	24	**100B715**	**100C715**	[4]
	679	1 078	72,5	1 070	25	41	**01EB715**	**01C715**	**01C13**
	1 137	1 627	122	960	59	84	**02EB715**	**02C715**	**02C34**
	1 451	2 022	99,6	880	105	109	**03B715**	**03C715**	**03C61**

2.1 Split cylindrical roller bearings and cartridges

d_a **220 – 270** mm
8 – 10 *in.*



Non-locating | Locating | Felt seals | Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
8	285,75	109	55,5	55,5	6	323,85	172	[4]
	311,15	109	60,3	60,3	8	358,78	172	200
	368,3	156	90,5	90,5	13	425,5	235	258
	419,1	191	97,7	118,3	16	489	270	300
220	311,15	109	60,3	60,3	8	358,78	172	[4]
	342,9	115	63,5	63,5	8	387,35	178	216
	393,7	163	90,5	90,5	13	457,2	242	274
	469,9	212	109,6	131,8	18	546,1	298	334
9	342,9	115	63,5	63,5	8	387,35	178	216
	393,7	163	90,5	90,5	13	457,2	242	274
	469,9	212	109,6	131,8	18	546,1	298	334
230	342,9	115	63,5	63,5	8	387,35	178	216
	393,7	163	90,5	90,5	13	457,2	242	274
240	374,65	122	66,7	66,7	9	419,1	188	222
	431,8	170	96,8	96,8	13	495,3	248	280
	482,6	211	105,6	124,6	18	558,8	298	334
250	374,65	122	66,7	66,7	9	419,1	188	222
	431,8	170	96,8	96,8	13	495,3	248	280
	482,6	211	105,6	124,6	18	558,8	298	334
10	374,65	122	66,7	66,7	9	419,1	188	222
	431,8	170	96,8	96,8	13	495,3	248	280
	482,6	211	105,6	124,6	18	558,8	298	334
260	374,65	122	66,7	–	9	419,1	188	222
	374,65	122	–	66,7	–	419,1	188	222
	406,4	128	69	69	10	454	204	232
	431,8	170	96,8	–	13	495,3	248	280
	431,8	170	–	96,8	–	495,3	248	280
	482,6	211	105,6	–	18	558,8	298	334
	482,6	211	–	124,6	–	558,8	298	334
270	406,4	128	69	69	10	454	204	232

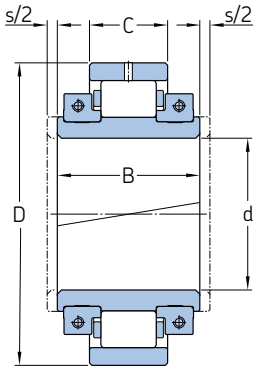
[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.
[3] Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.
[4] Contact SKF.

Shaft diameter	Load ratings			Limiting speed	Mass		Designations[2]		
	dynamic	static	axial		Bearing	Cartridge	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
8	325	571	48	1 070	18	24	**100B800**	**100C800**	[4]
	679	1 078	72,5	1 070	25	41	**01EB800**	**01C800**	**01C13**
	1 137	1 627	122	960	59	84	**02EB800**	**02C800**	**02C34**
	1 451	2 022	99,6	880	105	109	**03B800**	**03C800**	**03C61**
220	515	814	50	930	29	35	**100B220M**	**100C220M**	[4]
	715	1 191	79,8	930	32	46	**01EB220M**	**01C220M**	**01C14**
	1 233	1 863	138	850	68	98	**02EB220M**	**02C220M**	**02C35**
	1 586	2 163	109,4	760	145	155	**03B220M**	**03C220M**	**03C62**
9	715	1 191	79,8	930	32	46	**01EB900**	**01C900**	**01C14**
	1 233	1 863	138	850	68	98	**02EB900**	**02C900**	**02C35**
	1 586	2 163	109,4	760	145	155	**03B900**	**03C900**	**03C62**
230	715	1 191	79,8	930	32	46	**01EB230M**	**01C230M**	**01C14**
	1 233	1 863	138	850	68	98	**02EB230M**	**02C230M**	**02C35**
240	804	1 367	96,6	820	40	58	**01EB240M**	**01C240M**	**01C15**
	1 346	1 986	167	750	77	105	**02EB240M**	**02C240M**	**02C36**
	1 778	2 551	131	700	150	161	**03B240M**	**03C240M**	**03C63**
250	804	1 367	96,6	820	40	58	**01EB250M**	**01C250M**	**01C15**
	1 346	1 986	167	750	77	105	**02EB250M**	**02C250M**	**02C36**
	1 778	2 551	131	700	150	161	**03B250M**	**03C250M**	**03C63**
10	804	1 367	96,6	820	40	58	**01EB1000**	**01C1000**	**01C15**
	1 346	1 986	167	750	77	105	**02EB1000**	**02C1000**	**02C36**
	1 778	2 551	131	700	150	161	**03B1000**	**03C1000**	**03C63**
260	804	1 367	–	820	40	58	**01EB260MEX16**[3]	**01C260MEX15**[3]	**01C15EX15**[3]
	804	1 367	96,6	820	40	58	**01EB260MGR15**[3]	**01C260MGR12**[3]	**01C15GR13**[3]
	917	1 560	127	730	50	70	**01EB260M**	**01C260M**	**01C16**
	1 346	1 986	–	750	77	105	**02EB260M**	**02C260M**	**02C36EX10**[3]
	1 346	1 986	167	750	77	105	**02EB260M**	**02C260M**	**02C36GR11**[3]
	1 778	2 551	–	700	150	161	**03B260M**	**03C260M**	**03C63EX10**[3]
	1 778	2 551	131	700	150	161	**03B260M**	**03C260M**	**03C63GR10**[3]
270	917	1 560	127	730	50	70	**01EB270M**	**01C270M**	**01C16**

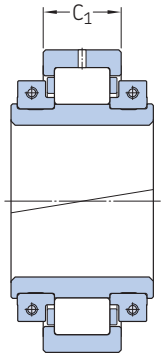
2.1 Split cylindrical roller bearings and cartridges

d_a **275 – 340** mm

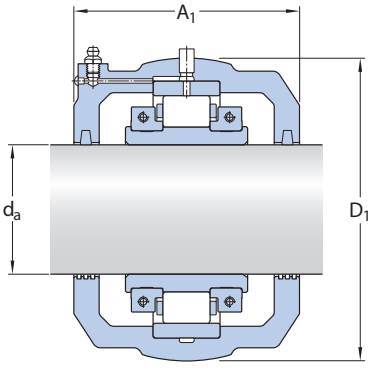
11 – 13 *in.*



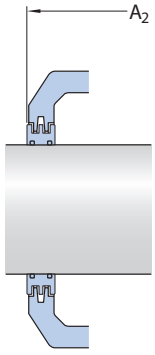
Non-locating



Locating



Felt / Grease groove seals



Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

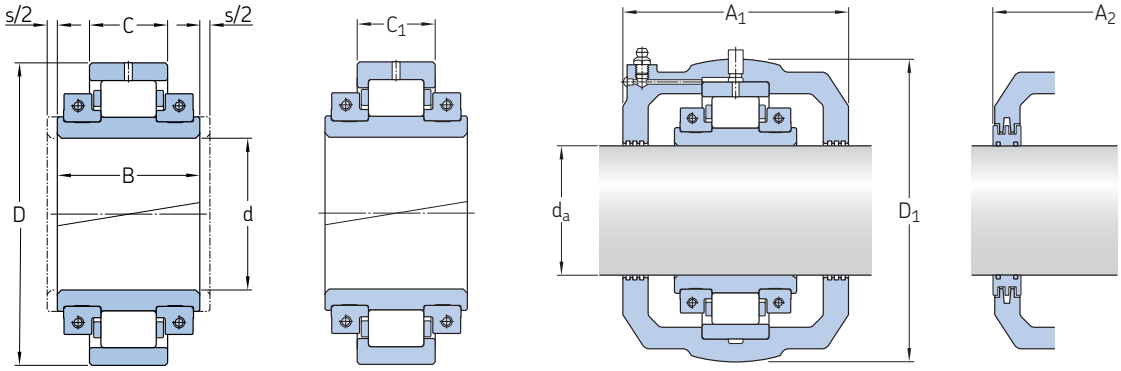
d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
275	406,4	128	69	69	10	454	204	232
11	406,4	128	69	69	10	454	204	232
	463,55	186	101,6	101,6	14	527,1	264	300
	495,3	244	139,7	139,7	20	571,5	356	356
280	406,4	128	69	69	10	454	204	232
	463,55	186	101,6	101,6	14	527,1	264	300
	495,3	244	139,7	139,7	20	571,5	356	356
290	438,15	143	74,6	74,6	10	489	216	248
	558,8	244	139,7	139,7	19	641,4	346	370
300	438,15	143	74,6	74,6	10	489	216	248
	495,3	193	103,2	103,2	14	552,5	268	306
	558,8	244	139,7	139,7	19	641,4	346	370
12	438,15	143	74,6	74,6	10	489	216	246
	495,3	193	103,2	103,2	14	552,5	368	306
	558,8	244	139,7	139,7	19	641,4	346	370
320	463,55	136	74,6	74,6	10	520,7	260	272
	527,05	192	106,4	106,4	15	587,4	298	330
	622,3	272	160,4	160,4	22	717,6	368	418
330	463,55	136	74,6	74,6	10	520,7	260	272
	527,05	192	106,4	106,4	15	587,4	298	330
13	463,55	136	74,6	74,6	10	520,7	260	272
	527,05	192	106,4	106,4	15	587,4	298	330
	622,3	272	160,4	160,4	22	717,6	368	418
340	463,55	136	74,6	–	10	520,7	260	272
	463,55	136	–	74,6	–	520,7	260	272
	488,95	136	74,6	74,6	10	546,1	260	272
	565,15	200	115,9	115,9	16	628,7	305	342
	615,95	279	158	158	22	704,9	432	432

[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.
[3] Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

Shaft diameter	Load ratings			Limiting speed	Mass		Designations[2]		
	dynamic	static	axial		Bearing	Cartridge	Bearing	Cartridge with felt / grease groove seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
275	917	1 560	127	730	50	70	**01EB275M**	**01C275M**	**01C16**
11	917	1 560	127	730	50	70	**01EB1100**	**01C1100**	**01C16**
	1 545	2 435	190	670	86	131	**02EB1100**	**02C1100**	**02C37**
	2 105	3 233	153	620	182	204	**03EB1100**	**03EC1100**	**03EC83**
280	917	1 560	127	730	50	70	**01EB280M**	**01C280M**	**01C16**
	1 545	2 435	190	670	86	131	**02EB280M**	**02C280M**	**02C37**
	2 105	3 233	153	620	182	204	**03EB280M**	**03EC280M**	**03EC83**
290	1 041	1 885	139	650	60	86	**01EB290M**	**01C290M**	**01C17**
	2 156	3 312	174	560	238	239	**03B290M**	**03C290M**	**03C65**
300	1 041	1 885	139	650	60	86	**01EB300M**	**01C300M**	**01C17**
	1 660	2 735	214	610	123	129	**02EB300M**	**02C300M**	**02C38**
	2 156	3 312	174	560	238	239	**03B300M**	**03C300M**	**03C65**
12	1 041	1 885	139	650	60	86	**01EB1200**	**01C1200**	**01C17**
	1 660	2 735	214	610	123	129	**02EB1200**	**02C1200**	**02C38**
	2 156	3 312	174	560	238	239	**03B1200**	**03C1200**	**03C65**
320	894	1 638	89	590	72	106	**01B320M**	**01C320M**	**01C18**
	1 570	2 622	144	550	150	172	**02B320M**	**02C320M**	**02C39**
	2 529	3 795	199	500	327	273	**03B320M**	**03C320M**	**03C66**
330	894	1 638	89	590	72	106	**01B330M**	**01C330M**	**01C18**
	1 570	2 622	144	550	150	172	**02B330M**	**02C330M**	**02C39**
13	894	1 638	89	590	72	106	**01B1300**	**01C1300**	**01C18**
	1 570	2 622	144	550	150	172	**02B1300**	**02C1300**	**02C39**
	2 529	3 795	199	500	327	273	**03B1300**	**03C1300**	**03C66**
340	894	1 638	–	590	72	106	**01B340MEX13**[3]	**01C340MEX12**[3]	**01C18EX**[3]
	894	1 638	89	590	72	106	**01B340MGR13**[3]	**01C340MGR11**[3]	**01C18GR**[3]
	935	1 774	99,6	540	78	117	**01B340M**	**01C340M**	**01C19**
	1 744	2 940	159	500	182	186	**02B340M**	**02C340M**	**02C40**
	2 750	4 392	214	460	318	385	**03EB340M**	**03EC340M**	**03EC86**

2.1 Split cylindrical roller bearings and cartridges

d_a **350 – 420** mm
14 – 17 *in.*



Non-locating | Locating | Grease groove seals | Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

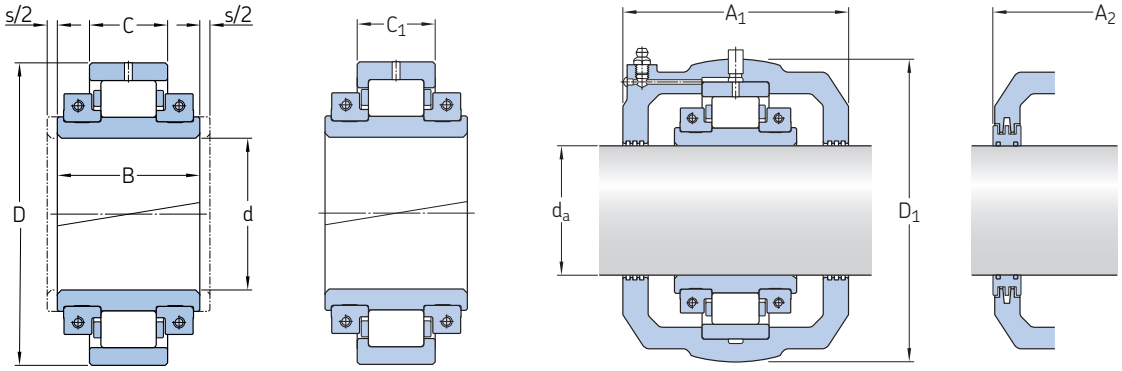
d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
350	488,95	136	74,6	74,6	10	546,1	260	272
	565,15	200	115,9	115,9	16	628,7	305	342
14	488,95	136	74,6	74,6	10	546,1	260	272
	565,15	200	115,9	115,9	16	628,7	305	342
	615,95	279	158	158	22	704,9	432	432
360	488,95	136	74,6	–	10	546,1	260	272
	488,95	136	–	74,6	–	546,1	260	272
	520,7	140	76,2	76,2	10	571,5	260	280
	565,15	200	115,9	115,9	16	628,7	305	342
	615,95	279	158	158	22	704,9	432	432
380	520,7	140	76,2	76,2	10	571,5	260	280
	584,2	200	111,1	111,1	16	647,7	305	342
	685,8	292	166,7	166,7	23	774,7	400	438
15	520,7	140	76,2	76,2	10	571,5	260	280
	584,2	200	111,1	111,1	16	647,7	305	342
	685,8	292	166,7	166,7	23	774,7	400	438
390	546,1	140	76,2	76,2	10	603,3	280	286
400	546,1	140	76,2	76,2	10	603,3	280	286
	615,95	200	115,9	115,9	16	685,8	324	350
	685,8	292	166,7	166,7	23	774,7	400	438
16	546,1	140	76,2	76,2	10	603,3	280	286
	615,95	200	115,9	115,9	16	685,8	324	350
420	571,5	140	76,2	76,2	10	628,7	292	298
	647,7	200	119,1	119,1	17	717,6	324	356
	700	284	160	160	23	788	440	442
17	571,5	140	76,2	76,2	10	628,7	292	298
	647,7	200	119,1	119,1	17	717,6	324	356
	700	284	160	160	23	788	440	442

[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.
[3] Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

Shaft diameter	Load ratings			Limiting speed	Mass		Designations[2]		
	dynamic	static	axial		Bearing	Cartridge	Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
350	935	1 774	99,6	540	78	117	**01B350M**	**01C350M**	**01C19**
	1 744	2 940	159	500	182	186	**02B350M**	**02C350M**	**02C40**
14	935	1 774	99,6	540	78	117	**01B1400**	**01C1400**	**01C19**
	1 744	2 940	159	500	182	186	**02B1400**	**02C1400**	**02C40**
	2 750	4 392	214	460	318	385	**03EB1400**	**03EC1400**	**03EC86**
360	935	1 774	–	540	78	117	**01B360MEX15**[3]	**01C360MEX13**[3]	**01C19EX**[3]
	935	1 774	99,6	540	78	117	**01B360MGR15**[3]	**01C360MGR16**[3]	**01C19GR**[3]
	1 005	1 925	110	500	86	126	**01B360M**	**01C360M**	**01C20**
	1 744	2 940	159	500	182	186	**02B360M**	**02C360M**	**02C40**
	2 750	4 392	214	460	318	385	**03EB360M**	**03EC360M**	**03EC86**
380	1 005	1 925	110	500	86	126	**01B380M**	**01C380M**	**01C20**
	1 862	3 254	174	460	186	209	**02B380M**	**02C380M**	**02C41**
	3 019	4 800	251	420	431	399	**03B380M**	**03C380M**	**03C68**
15	1 005	1 925	110	500	86	126	**01B1500**	**01C1500**	**01C20**
	1 862	3 254	174	460	186	209	**02B1500**	**02C1500**	**02C41**
	3 019	4 800	251	420	431	399	**03B1500**	**03C1500**	**03C68**
390	1 048	2 071	116	460	95	141	**01B390M**	**01C390M**	**01C21**
400	1 048	2 071	116	460	95	141	**01B400M**	**01C400M**	**01C21**
	1 948	3 438	188	430	209	254	**02B400M**	**02C400M**	**02C42**
	3 019	4 800	251	420	431	399	**03B400M**	**03C400M**	**03C68**
16	1 048	2 071	116	460	95	141	**01B1600**	**01C1600**	**01C21**
	1 948	3 438	188	430	209	254	**02B1600**	**02C1600**	**02C42**
420	1 089	2 218	121	430	104	150	**01B420M**	**01C420M**	**01C22**
	2 069	3 702	202	400	241	264	**02B420M**	**02C420M**	**02C43**
	3 474	6 006	276	360	395	408	**03EB420M**	**03EC420M**	**03EC89**
17	1 089	2 218	121	430	104	150	**01B1700**	**01C1700**	**01C22**
	2 069	3 702	202	400	241	264	**02B1700**	**02C1700**	**02C43**
	3 474	6 006	276	360	395	408	**03EB1700**	**03EC1700**	**03EC89**

2.1 Split cylindrical roller bearings and cartridges

d_a **440 – 530** mm
18 – 22 *in.*



Non-locating | Locating | Grease groove seals | Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
440	596,9	140	76,2	76,2	10	650,9	304	310
	666,75	200	115,9	115,9	17	733,4	324	356
	700	284	160	160	23	788	440	442
18	596,9	140	76,2	76,2	10	650,9	304	310
	666,75	200	115,9	115,9	17	733,4	324	356
	740	294	170	170	24	840	450	450
460	596,9	140	76,2	76,2	10	650,9	304	310
	666,75	200	115,9	115,9	17	733,4	324	356
	740	294	170	170	24	840	450	450
480	628,65	144	81	81	11	682,6	304	324
	698,5	223	119,1	119,1	17	762	338	374
19	628,65	144	81	81	11	682,6	304	324
	698,5	223	119,1	119,1	17	762	338	374
500	654,05	168	80,2	80,2	11	717,6	304	330
	717,55	226	115,9	115,9	17	787,4	350	374
	850,9	300	187,4	187,4	26	958,9	495	508
20	654,05	168	80,2	80,2	11	717,6	304	330
	717,55	226	115,9	115,9	17	787,4	350	374
	850,9	300	187,4	187,4	26	958,9	495	508
530	692,15	168	81	81	11	755,7	330	336
	762	229	119,1	119,1	18	831,9	350	374
	850,9	300	187,4	187,4	26	958,9	495	508
21	692,15	168	81	81	11	755,7	330	336
	762	229	119,1	119,1	18	831,9	350	374
22	717,55	168	81	81	11	781,1	336	342
	793,75	233	122,2	122,2	18	866,8	356	380
	863,6	310	196,9	196,9	28	958,9	490	490

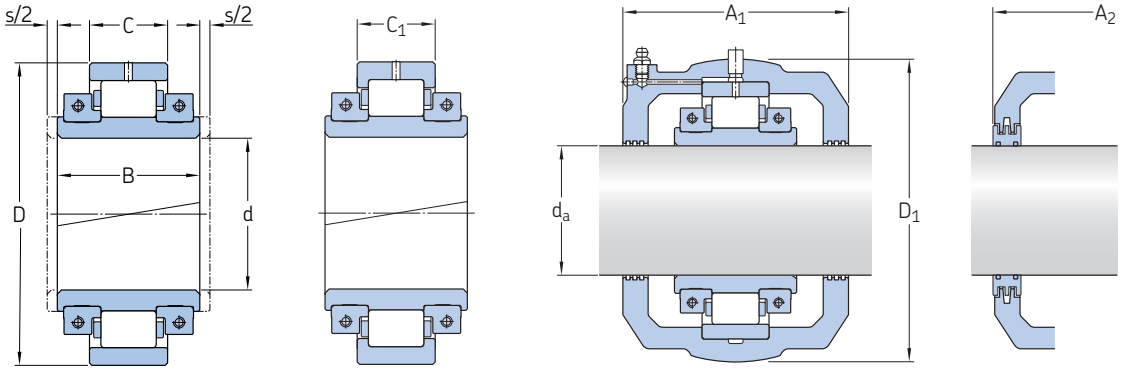
[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

Shaft diameter	**Load ratings** dynamic	static	axial	**Limiting speed**	**Mass** Bearing	Cartridge	**Designations**[2] Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
440	1 129	2 366	127	410	114	151	**01B440M**	**01C440M**	**01C23**
	2 195	4 057	216	380	250	265	**02B440M**	**02C440M**	**02C44**
	3 474	6 006	276	360	395	408	**03EB440M**	**03EC440M**	**03EC89**
18	1 129	2 366	127	410	114	151	**01B1800**	**01C1800**	**01C23**
	2 195	4 057	216	380	250	265	**02B1800**	**02C1800**	**02C44**
	3 650	6 156	302	340	431	454	**03EB1800**	**03EC1800**	**03EC90**
460	1 129	2 366	127	410	114	151	**01B460M**	**01C460M**	**01C23**
	2 195	4 057	216	380	250	265	**02B460M**	**02C460M**	**02C44**
	3 650	6 156	302	340	431	454	**03EB460M**	**03EC460M**	**03EC90**
480	1 169	2 433	133	380	128	162	**01B480M**	**01C480M**	**01C24**
	2 313	4 419	230	360	263	272	**02B480M**	**02C480M**	**02C45**
19	1 169	2 433	133	380	128	162	**01B1900**	**01C1900**	**01C24**
	2 313	4 419	230	360	263	272	**02B1900**	**02C1900**	**02C45**
500	1 213	2 593	138	360	136	192	**01B500M**	**01C500M**	**01C25**
	2 430	4 776	244	340	272	323	**02B500M**	**02C500M**	**02C46**
	4 087	7 042	347	310	730	770	**03B500M**	**03C500M**	**03C94**
20	1 213	2 593	138	360	136	192	**01B2000**	**01C2000**	**01C25**
	2 430	4 776	244	340	272	323	**02B2000**	**02C2000**	**02C46**
	4 087	7 042	347	310	730	770	**03B2000**	**03C2000**	**03C94**
530	1 253	2 755	141	340	164	226	**01B530M**	**01C530M**	**01C26**
	2 658	5 137	258	330	309	351	**02B530M**	**02C530M**	**02C47**
	4 087	7 042	347	310	730	770	**03B530M**	**03C530M**	**03C94**
21	1 253	2 755	141	340	164	226	**01B2100**	**01C2100**	**01C26**
	2 658	5 137	258	330	309	351	**02B2100**	**02C2100**	**02C47**
22	1 294	2 916	142	330	178	??	**01B2200**	**01C2200**	**01C27**
	2 790	5 556	272	310	336	379	**02B2200**	**02C2200**	**02C48**
	4 669	8 511	383	280	635	671	**03EB2200**	**03EC2200**	**03EC94**

2.1 Split cylindrical roller bearings and cartridges

d_a **560 –600** mm

23 – 24 *in.*



Non-locating | Locating | Grease groove seals | Labyrinth seals

Shaft diameter and bearing/cartridge dimensions

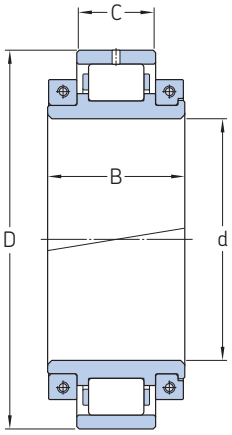
d_a, d	D	B	C	C_1	s[1]	D_1	A_1	A_2
mm/*in.*	mm							
560	717,55	168	81	81	11	781,1	336	342
	793,75	233	122,2	122,2	18	866,8	356	380
	863,6	310	196,9	196,9	28	958,9	490	490
580	749,3	172	84,1	84,1	11	816	342	348
	812,8	232	119,1	119,1	16	882,7	356	380
23	749,3	172	84,1	84,1	11	816	342	348
	812,8	232	119,1	119,1	16	882,7	356	380
	890	310	184	184	27	990	490	490
600	774,7	172	84,1	84,1	11	841,4	342	348
	838,2	214	119,1	119,1	18	914,4	388	394
	890	310	184	184	27	990	490	490
24	774,7	172	84,1	84,1	11	841,4	342	348
	838,2	214	119,1	119,1	18	914,4	388	394

[1] "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

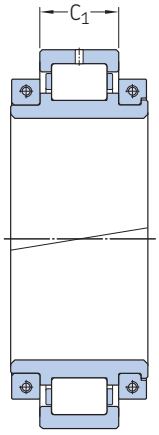
Shaft diameter	**Load ratings** dynamic	static	axial	**Limiting speed**	**Mass** Bearing	Cartridge	**Designations**[2] Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals
d_a	C	C_0	C_a						
mm/*in.*	kN			r/min	kg		–		
560	1 294	2 916	142	330	178	252	**01B560M**	**01C560M**	**01C27**
	2 790	5 556	272	310	336	379	**02B560M**	**02C560M**	**02C48**
	4 669	8 511	383	280	635	671	**03EB560M**	**03EC560M**	**03EC94**
580	1 387	3 138	144	310	195	273	**01B580M**	**01C580M**	**01C28**
	2 336	4 836	227	300	340	386	**02B580M**	**02C580M**	**02C49**
23	1 387	3 138	144	310	195	273	**01B2300**	**01C2300**	**01C28**
	2 336	4 836	227	300	340	386	**02B2300**	**02C2300**	**02C49**
	4 887	9 130	400	270	680	720	**03EB2300**	**03EC2300**	**03EC95**
600	1 431	3 311	147	300	210	290	**01B600M**	**01C600M**	**01C29**
	2 905	5 992	300	290	381	454	**02B600M**	**02C600M**	**02C50**
	4 887	9 130	400	270	680	720	**03EB600M**	**03EC600M**	**03EC95**
24	1 431	3 311	147	300	210	290	**01B2400**	**01C2400**	**01C29**
	2 905	5 992	300	290	381	454	**02B2400**	**02C2400**	**02C50**

2.2 Examples of large size split cylindrical roller bearings

d **610 – 1 250** mm
25 – 40 *in.*



Non-locating



Locating

Cartridges and housings are available on request. For additional information, contact SKF.

Principal dimensions				Load ratings dynamic	static	Designation[1]
d	D	B	C, C_1	C	C_0	
mm/*in.*	mm			kN		–
610	780	172	84,1	1 431	3 311	**01B610M**
613,2	980	370[2]	200[2]	5 593	9 863	**03EB613,2M**
630	794	190	88	1 780	4 181	**01B630M**
	980	361,6	216	7 036	14 708	**03B630M**
25	866,78	219,08	117,48	2 724	5 833	**02B2500**
650	860	220	120	2 724	5 833	**02B650M**
	980	320	200	5 738	11 253	**03EB650M**
26	980	320	200	5 738	11 253	**03EB2600**
670	900	260	142	3 923	8 652	**02B670M**
	1 050	410	250	8 866	18 398	**03B670M**
27	864	170	94	1 761	4 014	**01B2700**
690	864	170	94	1 761	4 014	**01B690M**
710	890	185	95	1 817	4 234	**01B710M**
	980	290	155	3 530	7 019	**02B710M**
	1 090	383	230	8 594	17 990	**03B710M**
28	892,18	184,15	87,31	1 682	4 038	**01B2800**
750	971,55	206	101,6	2 321	5 685	**01B750M**
	990	240	140	3 554	7 582	**02B750M**
	1 060	310	185	5 173	10 544	**03B750M**
775	945	165	80	1 762	3 974	**01B775M**
850	1 046	200	106	2 555	6 401	**01B850M**
	1 112	260	156	4 335	9 585	**02B850M**
	1 220	250	410	9 527	21 543	**03B850M**

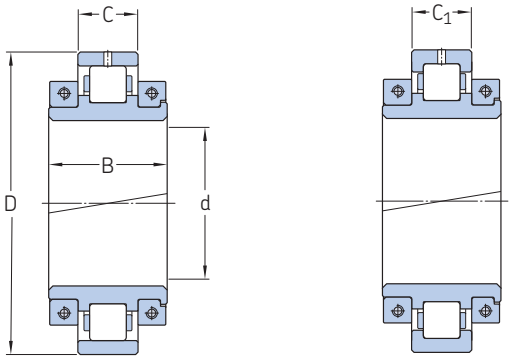
[1] Only basic designations are shown. A suffix is required to specify if the bearing is for the locating or non-locating position. Other bearing options are available on request. For additional information, refer to *Designations* on **page 186**.
[2] Dimensions of 03E B 613,2 refer to EXILOG type with roller and axial guide surfaces to outer ring only.

Principal dimensions				Load ratings		Designation[1]
				dynamic	static	
d	D	B	C, C_1	C	C_0	
mm/*in.*	mm			kN		–
860	1 170	330	190	5 698	12 404	**03B860M**
950	1 172	220	120	3 238	8 209	**01B950M**
	1 212	260	156	4 882	11 587	**02B950M**
	1 320	250	410	10 312	24 647	**03B950M**
40	1 270	260	139,7	3 958	10 084	**01B4000**
1 100	1 467	410	250	9 654	23 450	**03B1100M**
1 150	1 490	305	175	5 737	13 445	**4DSB1150M**
1 250	1 630	350	214	8 587	21 001	**03B1250M**

[1] Only basic designations are shown. A suffix is required to specify if the bearing is for the locating or non-locating position. Other bearing options are available on request. For additional information, refer to *Designations* on **page 186**.

2.3 Split cylindrical roller bearings, 04 series

d **340 – 1 550** mm
6 – 48 *in.*



Non-locating Locating

Principal dimensions				Load ratings		Limiting speed	Mass	Designation[1]
d	D	B	C, C_1	dynamic C	static C_0			
mm/*in.*	mm			kN		r/min	kg	–
6	257,18	79	38,1	198	246	3 000	14	**04B600**
10 5/8	365,13	103	48,4	336	367	2 470	27	**04B1010**
340	438,15	103	48,4	261	282	1 950	35	**04B340M**
13 1/2	438,15	103	48,4	261	282	1 950	34	**04B1308**
400	505	100	36	214	235	1 650	34	**04B400M**
17 1/2	546,1	108	48,4	302	367	1 460	45	**04B1708**
18 1/2	571,5	108	48,4	316	395	1 370	50	**04B1808**
20 3/4	635	114	48,4	326	423	1 210	54	**04B2012**
550	655	98	36	266	289	1 150	54	**04B550M**
22	666,75	101	38,1	361	452	1 130	54	**04B2200**
23	692,15	101	38,1	368	470	1 080	59	**04B2300**
24	717,55	101	38,1	413	543	1 020	61	**04B2400**
26 1/2	781,05	114	48,4	509	818	910	77	**04B2608**
30	882,65	114	44,5	372	509	780	95	**04B3000**
32	939,8	114	44,5	394	579	730	104	**04B3200**
33	965,2	114	44,5	403	602	705	104	**04B3300**
36	1 041,4	114	44,5	418	556	620	118	**04B3600**

[1] Only basic designations are shown. A suffix is required to specify if the bearing is for the locating or non-locating position. Other bearing options are available on request. For additional information, refer to *Designations* on **page 186**.

Principal dimensions				Load ratings		Limiting speed	Mass	Designation[1]
				dynamic	static			
d	D	B	C, C_1	C	C_0			
mm/*in.*	mm			kN		r/min	kg	–
1 060	1 220	127	60	954	1 472	560	180	**04B1060M**
44	1 295,4	168	76,2	1 339	1 822	140	200	**04B4400**
48	1 371,6	140	69,9	1 094	1 693	350	146	**04B4800**
1 295	1 435,1	127	63,5	988	1 606	340	193	**04B1295AM**
	1 473,2	168	76,2	1 831	2 877	120	313	**04B1295BM**
1 550	1 720	140	75	1 364	2 418	300	336	**04B1550M**

[1] Only basic designations are shown. A suffix is required to specify if the bearing is for the locating or non-locating position. Other bearing options are available on request. For additional information, refer to *Designations* on **page 186**.

3 Split tapered roller bearings

Split tapered roller bearings are designed to accommodate combined loads, i.e. simultaneously acting radial and axial loads in both directions, and they are intended for the locating bearing position of shafts.

Designs and variants

Split tapered roller bearings are available as locating (fixed type) bearings only (**fig. 1**) and:

- have a split outer ring
- have a split inner ring with integral flanges clamped to the shaft with clamping rings
- have a double roller and cage assembly
- can withstand both radial and axial loads in both directions
- provide axial location

Standard assortment

- 75 to 180 mm
- fitted with brass cages
- listed in the **product table** on **page 104**

Cartridges

- are machined for grease groove seals as standard
  - Other seal options are available on request.
  - Flanged units may also be supplied with a bulkhead sealing arrangement, **page 18**.
- are supplied with a drilled hole for attaching a temperature sensor
  - The proximity of the temperature element hole to the shaft means that if the sensor is a headed type, it will generally require an angled probe.
  - Alternative positions for the temperature sensor are possible.

Housings

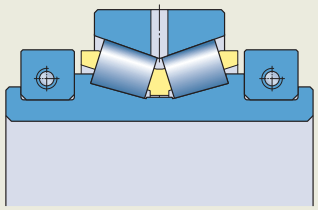
Split tapered roller bearings are suitable for various housing types, the most common being:

- plummer block housings (**product table**, **page 108**)
- flanged housings (**product table**, **page 150**)

Housings for split tapered roller bearings are made of ductile iron as standard.

Fig. 1

Split tapered roller bearing



Loads

Minimum load For additional information, → **page 13**	$F_{rm} \geq 0{,}01\ C$	**Symbols:** C basic dynamic load rating [kN] e calculation factor (→ **product table**, **page 104**) F_a axial load [kN] F_r radial load [kN] F_{rm} minimum radial load [kN] P equivalent dynamic bearing load [kN] P_0 equivalent static bearing load [kN] Y_0, Y_1, Y_2 calculation factors (→ **product table**, **page 104**)
Equivalent dynamic bearing load For additional information, → **page 11**	$F_a/F_r \leq e \rightarrow P = F_r + Y_1 F_a$ $F_a/F_r > e \rightarrow P = 0{,}67\ F_r + Y_2 F_a$	
Equivalent static bearing load For additional information, → **page 12**	$P_0 = F_r + Y_0 F_a$	

Temperature limits

The permissible operating temperature for SKF Cooper split tapered roller bearings can be limited by:

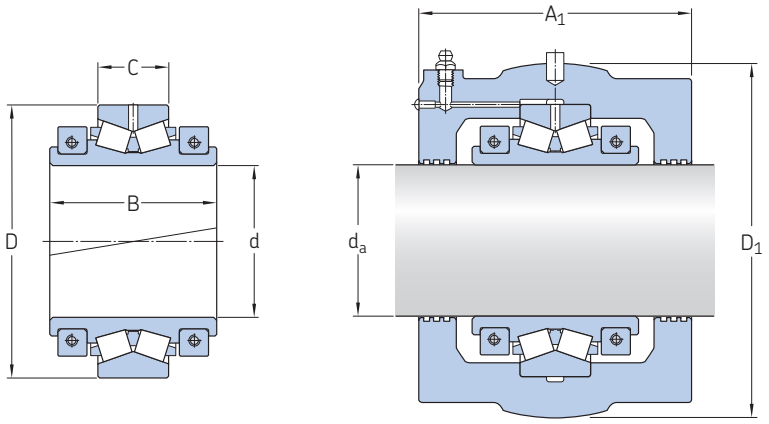
- the dimensional stability of the bearing rings and rolling elements
- the cages
- the seals
- the lubricant

The permissible operating temperature for standard bearings is normally up to 100 °C. The lower limit of operating temperatures is normally defined by the lubricant used. Refer to Lubrication section **page 21**.

Where temperatures outside the permissible range are expected, contact SKF. High temperature variants are available upon request.

3.1 Split tapered roller bearings and cartridges

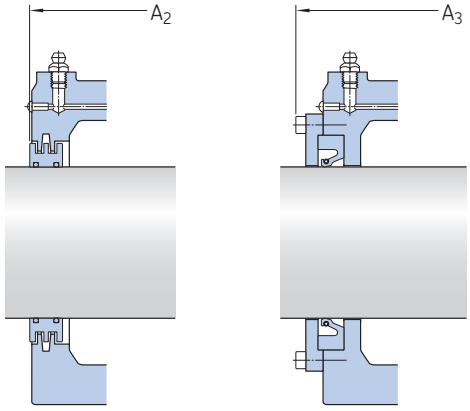
d_a **75 – 180** mm



Grease groove seals

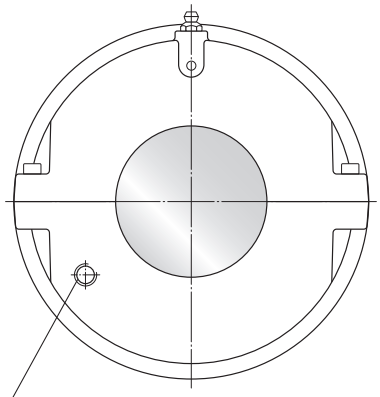
Shaft diameter and bearing/cartridge dimensions								Load ratings dynamic	static	Limiting speed	Designations[1] Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals
d_a, d	D	B	C	D_1	A_1	A_2	A_3	C	C_0				
mm								kN		r/min	–		
75	135	82,6	35	177,8	138	140	162	143	208	3 410	**1DTB75M**	**1DTC75GR75M**	**1DTC75GR30TL**
80	145	85	35	203,2	140	142	164	152	232	3 200	**1DTB80M**	**1DTC80GR80M**	**1DTC80GR35TL**
90	150	85	35	203,2	146	148	170	160	254	2 840	**1DTB90M**	**1DTC90GR90M**	**1DTC90GR35TL**
100	175	100	40	231,78	170	172	202	235	379	2 560	**1DTB100M**	**1DTC100GR100M**	**1DTC100GR40TL**
110	190	110	48	266,7	178	180	210	282	504	2 330	**1DTB110M**	**1DTC110GR110M**	**1DTC110GR45TL**
120	200	110	48	266,7	178	180	210	295	544	2 130	**1DTB120M**	**1DTC120GR120M**	**1DTC120GR50TL**
130	215	125	45	279,4	190	192	222	296	555	1 830	**1DTB130M**	**1DTC140GR130M**	**1DTC140GR50TL**
140	215	110	45	279,4	190	192	222	296	555	1 830	**1DTB140M**	**1DTC140GR140M**	**1DTC140GR55TL**
150	240	123,8	45	311,15	200	202	232	350	670	1 600	**1DTB150M**	**1DTC160GR150M**	**1DTC160GR60TL**
160	240	110	45	311,15	200	202	232	350	670	1 600	**1DTB160M**	**1DTC160GR160M**	**1DTC160GR65TL**
180	265	110	45	336,55	200	206	232	358	716	1 420	**1DTB180M**	**1DTC180GR180M**	**1DTC180GR70TL**

[1] Only basic designations are shown. Other bearing options are available on request. For additional information, refer to *Designations* on **page 186**. For cartridges with a lip seal, contact SKF.



Labyrinth seals

Lip seals



For temperature sensor

Shaft diameter	Calculation factors				Mass Bearing	Cartridge
d_a	Y_1	Y_2	Y_0	e		
mm	–				kg	
75	1,27	1,89	1,24	0,53	4	12
80	1,2	1,79	1,18	0,56	4,6	15
90	1,11	1,65	1,08	0,61	4,7	13,5
100	1,17	1,75	1,15	0,58	8,3	20
110	1,05	1,56	1,02	0,64	11,5	30
120	1	1,49	0,98	0,68	12	26,5
130	1,27	1,9	1,24	0,53	14	31
140	1,27	1,9	1,24	0,53	12	31
150	1,34	1,99	1,31	0,5	17	47
160	1,34	1,99	1,31	0,5	15	47
180	1,21	1,8	1,18	0,56	17	42,5

4 Plummer block housings

Plummer (pillow) block housings, also known as pedestals, are the most common method of mounting split roller bearings in cartridges.

Designs and variants

Plummer block housings can be used for both the locating and non-locating bearing position and are available in the following designs:

- two-bolt housings
- four-bolt housings (**fig. 1**)
- interchangeable housings
  - SNC500 series
  - SDC3100 series
  - SAFC500 series
- interchangeable angled housings
  - SNQ series
  - SDQ series
  - SAFQ series (**fig. 2**)

Interchangeable housings

Interchangeable housings are designed with height-to-centre and bolt hole configurations that match industry standard SN, SD, and SAF plummer block units. However, the footprint, overall height, and length on the shaft may differ and should be checked against the available space.

The housings:

- may be used to economically replace existing units with non-split bearings
- may be incorporated into new machinery where the envelope dimensions of these housings are desirable
- typically contain split cylindrical roller bearings in the 01/01E or 02/02E series
- may accommodate bearings and cartridges of different series and sizes if the loading conditions permit
- sometimes contain bearings and cartridges with a reduced outside diameter in order to provide adequate plummer block base thickness. However, the load ratings of the standard bearings of the same bore size still apply.

Angled housings

Angled housings are designed for a location where there is a particularly difficult access for mounting the plummer block base.

The angled joint (tenon-style) of the plummer block allows the housing base to be slid into position under the shaft without the need to hoist it, and is therefore suitable where:

- there is no other means (such as removable packing) to create extra height between the mounting structure and the shaft
- there is no possibility of putting the housing base under the shaft in an area of greater clearance and moving axially into position.

Housing materials

SDC, SAFC, SNQ, SDQ, and SAFQ housings are made of ductile iron (grade EN-GJS-400/18 in accordance with BS EN 1563), as standard.

All other housings, including SNC series are made of:

- grey cast iron (grade EN-GJL-250 in accordance with BS EN 1561), as standard
- ductile iron, e.g. for impact or pulsating loads, available on request
- steel, e.g. for impact or pulsating loads, available on request

Fig. 1

Four-bolt plummer block housing

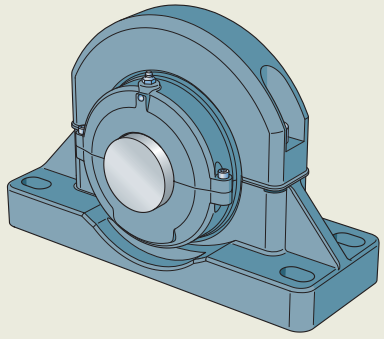
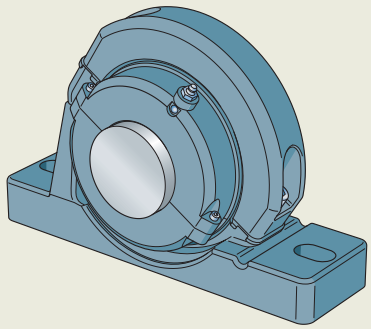


Fig. 2

Angled plummer block housing (SAFQ)



Permissible misalignment

Under constant or slowly changing alignment conditions, there is a permissible misalignment up to 2,5 ° without compromising sealing capability.

Loads

The maximum safe radial load for a plummer block housing is based on the basic static load rating (C_0) of the corresponding size of split roller bearing. The load can be applied in full when the angle of the load falls within the shaded area of **fig. 3**, except for:

- housings in the SNC500 series, where the maximum load is reduced to 50% of the basic static load rating (C_0)
- angled housings, where the maximum load is reduced to 50% of the basic static load rating (C_0) when the angle of the load falls within the shaded area of **fig. 4**

Contact SKF in the following cases:

- the radial load falls outside the shaded areas of **fig. 3** or **fig. 4**
- the radial load exceeds the basic static load rating (C_0)
- the axial loads exceed 50% of the axial load rating (C_a) of the corresponding size of split roller bearing

The permissible axial load of a plummer block housing is typically:

- 35% of the bearing axial load rating (C_a) when used with 100 series split cylindrical roller bearings
- 26% of the bearing axial load rating (C_a) when used with 01E and 02E series split cylindrical roller bearings

For 01, 02, and 03/03E series split cylindrical roller bearings, as well as split tapered roller bearings, contact SKF.

Design considerations

To maximize bearing service life and prevent deformation of the housing bore, SKF recommends the plummer block housing supporting surface to have:

- a flatness to tolerance grade IT7, in accordance with ISO 1101
- a surface roughness Ra ≤ 12,5 µm

For loads within 45° of the horizontal, the base should be chocked or dowelled.

Fig. 3

Load position in plummer block housings

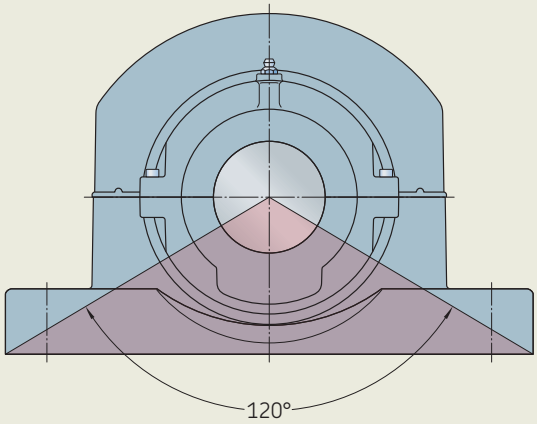
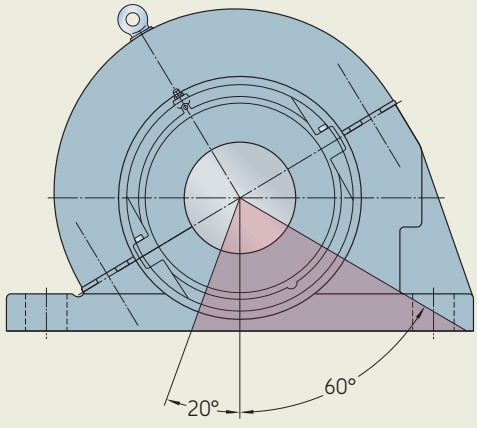


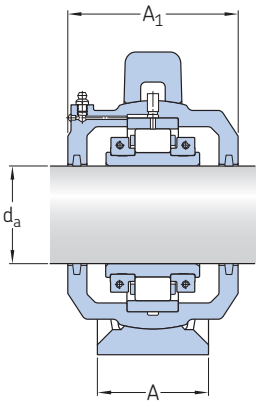
Fig. 4

Load position in angled plummer block housings

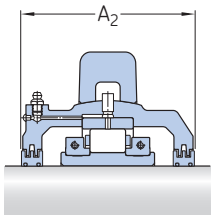


4.1 Plummer block housings for split cylindrical roller bearings

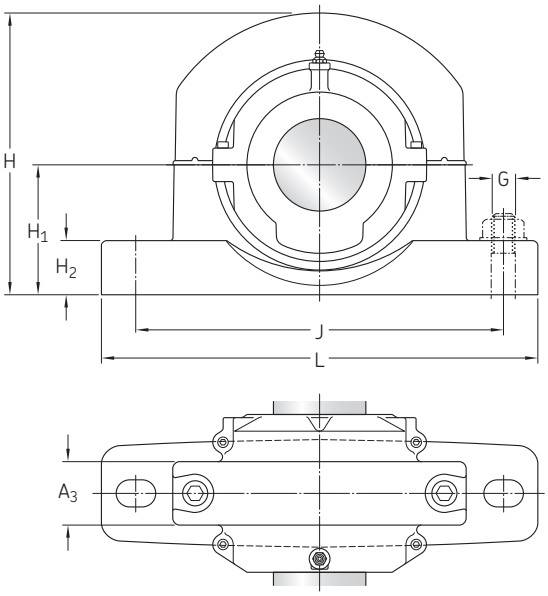
d_a **35 – 55** mm
1 3/16 – 2 1/4 *in.*



Felt seals



Labyrinth seals



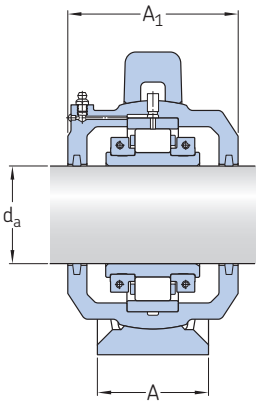
Shaft diameter d_a	**Designations**[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
mm/*in.*	–			
1 3/16	**P01**	**01EB103**	–	**01C1**
1 1/4	**P01**	**01EB104**	–	**01C1**
35	**P01**	**01EB35M**	–	**01C1**
1 7/16	**P01**	**01EB107**	–	**01C1**
1 1/2	**P01**	**01EB108**	–	**01C1**
40	**P01**	**01EB40M**	**01C40M**	**01C1**
1 11/16	**P02**	**01EB111**	**01C111**	**01C2**
1 3/4	**P02**	**01EB112**	**01C112**	**01C2**
45	**P02**	**01EB45M**	**01C45M**	**01C2**
1 15/16	**P02** **P03**	**01EB115** **02EB115**	**01C115** **02C115**	**01C2** **02C3**
50	**P02** **P03**	**01EB50M** **02EB50M**	**01C50M** **02C50M**	**01C2** **02C3**
2	**P02** **P03**	**01EB200** **02EB200**	**01C200** **02C200**	**01C2** **02C3**
55	**P03**	**01EB55M**	**01C55M**	**01C3**
2 3/16	**P03** **P04**	**01EB203** **0E2B203**	**01C203** **02C203**	**01C3** **02C4**
2 1/4	**P03** **P04**	**01EB204** **0E2B204**	**01C204** **02C204**	**01C3** **02C4**

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

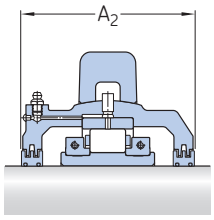
Shaft diameter	Dimensions										Attachment bolts	Mass Housing
d_a	A	A_1	A_2	A_3	H	H_1	H_2	J min.	max.	L	G	
mm/*in.*	mm										–	kg
1 3/16	60	86	86	25	138	60	22	172	192	228	M12 or *1/2 in.*	2,5
1 1/4	60	86	86	25	138	60	22	172	192	228	M12 or *1/2 in.*	2,5
35	60	86	86	25	138	60	22	172	192	228	M12 or *1/2 in.*	2,5
1 7/16	60	86	86	25	138	60	22	172	192	228	M12 or *1/2 in.*	2,5
1 1/2	60	86	86	25	138	60	22	172	192	228	M12 or *1/2 in.*	2,5
40	60	86	86	25	138	60	22	172	192	228	M12 or *1/2 in.*	2,5
1 11/16	60	98	98	25	158	70	25	203	227	270	M16 or *5/8 in.*	3,2
1 3/4	60	98	98	25	158	70	25	203	227	270	M16 or *5/8 in.*	3,2
45	60	98	98	25	158	70	25	203	227	270	M16 or *5/8 in.*	3,2
1 15/16	60 70	98 114	98 114	25 32	158 180	70 80	25 32	203 226	227 242	270 280	M16 or *5/8 in.* M16 or *5/8 in.*	3,2 4,9
50	60 70	98 114	98 114	25 32	158 180	70 80	25 32	203 226	227 242	270 280	M16 or *5/8 in.* M16 or *5/8 in.*	3,2 4,9
2	60 70	98 114	98 114	25 32	158 180	70 80	25 32	203 226	227 242	270 280	M16 or *5/8 in.* M16 or *5/8 in.*	3,2 4,9
55	70	104	104	32	180	80	32	226	242	280	M16 or *5/8 in.*	4,9
2 3/16	70 76	104 126	104 126	32 38	180 208	80 95	32 38	226 260	242 280	280 330	M16 or *5/8 in.* M20 or *3/4 in.*	4,9 6,9
2 1/4	70 76	104 126	104 126	32 38	180 208	80 95	32 38	226 260	242 280	280 330	M16 or *5/8 in.* M20 or *3/4 in.*	4,9 6,9

4.1 Plummer block housings for split cylindrical roller bearings

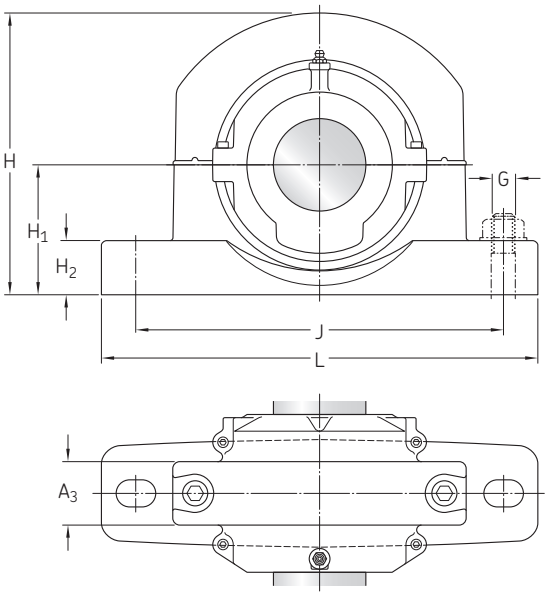
d_a **60 – 80** mm
2 7/16 – 3 *in.*



Felt seals



Labyrinth seals



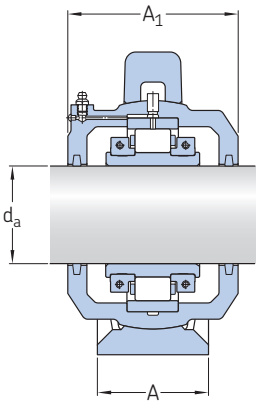
Shaft diameter d_a	**Designations**[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
mm/*in.*	–			
60	**P03** **P04**	**01EB60M** **02EB60M**	**01C60M** **02C60M**	**01C3** **02C4**
2 7/16	**P03** **P04**	**01EB207** **02EB207**	**01C207** **02C207**	**01C3** **02C4**
2 1/2	**P03** **P04**	**01EB208** **02EB208**	**01C208** **02C208**	**01C3** **02C4**
65	**P03** **P04**	**01EB65M** **02EB65M**	**01C65M** **02C65M**	**01C3** **02C4**
2 11/16	**P04** **P05**	**01EB211** **02EB211**	**01C211** **02C211**	**01C4** **02C5**
2 3/4	**P04** **P05**	**01EB212** **02EB212**	**01C212** **02C212**	**01C4** **02C5**
70	**P04** **P05**	**01EB70M** **02EB70M**	**01C70M** **02C70M**	**01C4** **02C5**
2 15/16	**P03** **P04** **P05**	**100B215** **01EB215** **02EB215**	**100C215** **01C215** **02C215**	**100C3** **01C4** **02C5**
75	**P03** **P04** **P05**	**100B75M** **01EB75M** **02EB75M**	**100C75M** **01C75M** **02C75M**	**100C3** **01C4** **02C5**
3	**P03** **P04** **P05**	**100B300** **01EB300** **02EB300**	**100C300** **01C300** **02C300**	**100C3** **01C4** **02C5**
80	**P05** **P06**	**01EB80M** **02EB80M**	**01C80M** **02C80M**	**01C5** **02C6**

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

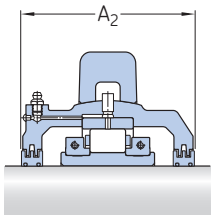
Shaft diameter	Dimensions										Attachment bolts	Mass Housing
d_a	A	A_1	A_2	A_3	H	H_1	H_2	J min.	max.	L	G	
mm/*in.*	mm										–	kg
60	70	104	104	32	180	80	32	226	242	280	M16 or *5/8 in.*	4,9
	76	126	126	38	208	95	38	260	280	330	M20 or *3/4 in.*	6,9
2 7/16	70	104	104	32	180	80	32	226	242	280	M16 or *5/8 in.*	4,9
	76	126	126	38	208	95	38	260	280	330	M20 or *3/4 in.*	6,9
2 1/2	70	104	104	32	180	80	32	226	242	280	M16 or *5/8 in.*	4,9
	76	126	126	38	208	95	38	260	280	330	M20 or *3/4 in.*	6,9
65	70	104	104	32	180	80	32	226	242	280	M16 or *5/8 in.*	4,9
	76	126	126	38	208	95	38	260	280	330	M20 or *3/4 in.*	6,9
2 11/16	76	114	114	38	208	95	38	260	280	330	M16 or *5/8 in.*	6,9
	90	140	140	50	252	112	44	312	328	380	M24 or *7/8 in.*	13,5
2 3/4	76	114	114	38	208	95	38	260	280	330	M16 or *5/8 in.*	6,9
	90	140	140	50	252	112	44	312	328	380	M24 or *7/8 in.*	13,5
70	76	114	114	38	208	95	38	260	280	330	M20 or *3/4 in.*	6,9
	90	140	140	50	252	112	44	312	328	380	M24 or *7/8 in.*	13,5
2 15/16	70	104	104	32	180	80	32	226	242	280	M16 or *5/8 in.*	4,9
	76	114	114	38	208	95	38	260	280	330	M16 or *5/8 in.*	6,9
	90	140	140	50	252	112	44	312	328	380	M24 or *7/8 in.*	13,5
75	70	104	104	32	180	80	32	226	242	280	M16 or *5/8 in.*	4,9
	76	114	114	38	208	95	38	260	280	330	M16 or *5/8 in.*	6,9
	90	140	140	50	252	112	44	312	328	380	M24 or *7/8 in.*	13,5
3	70	104	104	32	180	80	32	226	242	280	M16 or *5/8 in.*	4,9
	76	114	114	38	208	95	38	260	280	330	M16 or *5/8 in.*	6,9
	90	140	140	50	252	112	44	312	328	380	M24 or *7/8 in.*	13,5
80	90	136	136	50	252	112	44	312	328	380	M24 or *7/8 in.*	13,5
	102	154	154	50	272	125	52	342	366	420	M24 or *7/8 in.*	14,5

4.1 Plummer block housings for split cylindrical roller bearings

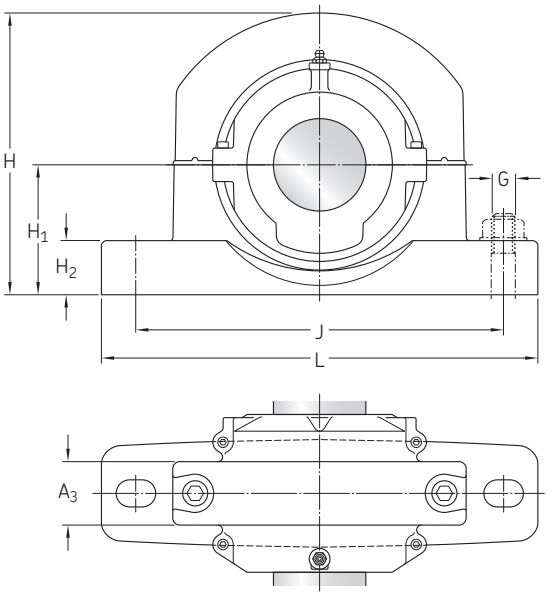
d_a **85 – 95** mm
3 3/16 – 3 3/4 *in.*



Felt seals



Labyrinth seals



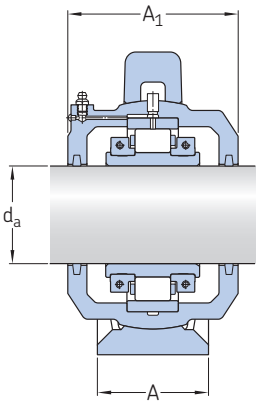
Shaft diameter d_a	**Designations**[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
mm/*in.*	–			
3 3/16	**P05**	**01EB303**	**01C303**	**01C5**
	P06	**02EB303**	**02C303**	**02C6**
3 1/4	**P05**	**01EB304**	**01C304**	**01C5**
	P06	**02EB304**	**02C304**	**02C6**
85	**P04**	**100B85M**	**100C85M**	**100C4**
	P05	**01EB85M**	**01C85M**	**01C5**
	P06	**02EB85M**	**02C85M**	**02C6**
3 7/16	**P04**	**100B307**	**100C307**	**100C4**
	P05	**01EB307**	**01C307**	**01C5**
	P06	**02EB307**	**02C307**	**02C6**
3 1/2	**P05**	**01EB308**	**01C308**	**01C5**
	P06	**02EB308**	**02C308**	**02C6**
90	**P05**	**01EB90M**	**01C90M**	**01C5**
	P06	**02EB90M**	**02C90M**	**02C6**
3 11/16	**P06**	**01EB311**	**01C311**	**01C6**
	P07	**02EB311**	**02C311**	**02C7**
95	**P06**	**01EB95M**	**01C95M**	**01C6**
3 3/4	**P06**	**01EB312**	**01C312**	**01C6**
	P07	**02EB312**	**02C312**	**02C7**

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

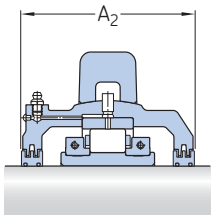
Shaft diameter	Dimensions										Attachment bolts	Mass Housing
d_a	A	A_1	A_2	A_3	H	H_1	H_2	J min.	 max.	L	G	
mm/*in.*	mm										–	kg
3 3/16	90	136	136	50	252	112	44	312	328	380	M24 or *7/8 in.*	13,5
	102	154	154	50	272	125	52	342	366	420	M24 or *7/8 in.*	14,5
3 1/4	90	136	136	50	252	112	44	312	328	380	M24 or *7/8 in.*	13,5
	102	154	154	50	272	125	52	342	366	420	M24 or *7/8 in.*	14,5
85	76	114	114	38	208	95	38	260	280	330	M20 or *3/4 in.*	6,9
	90	136	136	50	252	112	44	312	328	380	M24 or *7/8 in.*	13,5
	102	154	154	50	272	125	52	342	366	420	M24 or *7/8 in.*	14,5
3 7/16	76	114	114	38	208	95	38	260	280	330	M20 or *3/4 in.*	6,9
	90	136	136	50	252	112	44	312	328	380	M24 or *7/8 in.*	13,5
	102	154	154	50	272	125	52	342	366	420	M24 or *7/8 in.*	14,5
3 1/2	90	136	136	50	252	112	44	312	328	380	M24 or *7/8 in.*	13,5
	102	154	154	50	272	125	52	342	366	420	M24 or *7/8 in.*	14,5
90	90	136	136	50	252	112	44	312	328	380	M24 or *7/8 in.*	13,5
	102	154	154	50	272	125	52	342	366	420	M24 or *7/8 in.*	14,5
3 11/16	102	134	134	50	272	125	52	342	366	420	M24 or *7/8 in.*	14,5
	120	146	146	64	314	143	60	374	410	466	M24 or *7/8 in.*	20,5
95	102	134	134	50	272	125	52	342	366	420	M24 or *7/8 in.*	14,5
3 3/4	102	134	134	50	272	125	52	342	366	420	M24 or *7/8 in.*	14,5
	120	146	146	64	314	143	60	374	410	466	M24 or *7/8 in.*	20,5

4.1 Plummer block housings for split cylindrical roller bearings

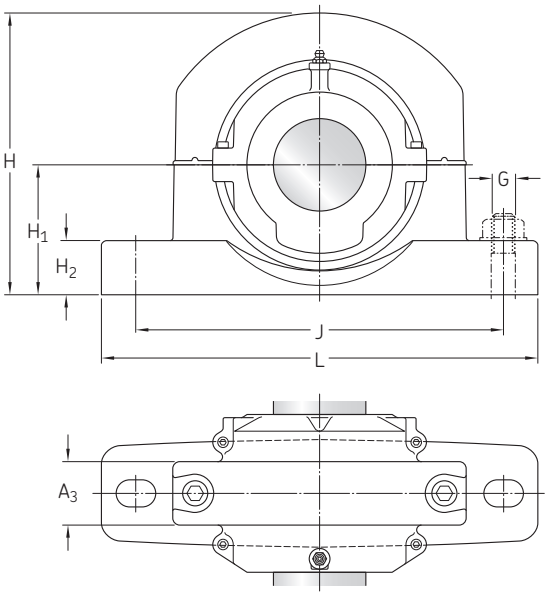
d_a **100 – 115** mm
3 15/16 – 4 1/2 *in.*



Felt seals



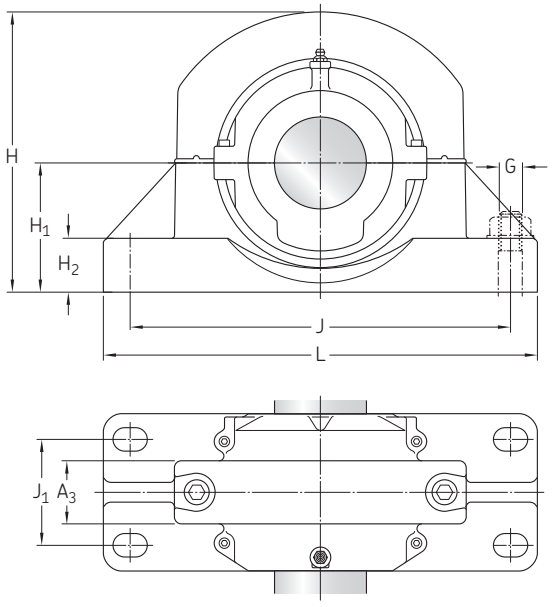
Labyrinth seals



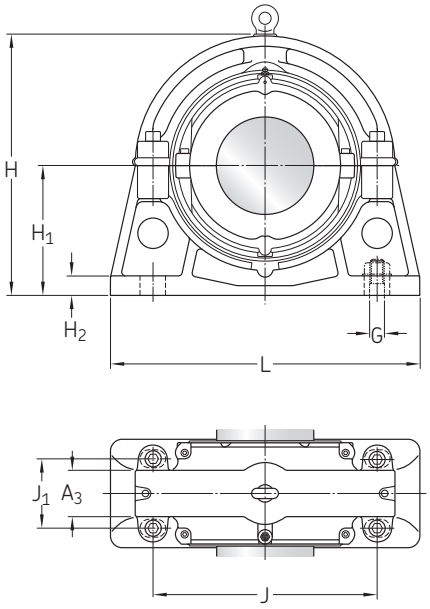
P05, P06, P07

Shaft diameter	Designations[1]			
	Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a				
mm/*in.*	–			
100	**P05**	**100B100M**	**100C100M**	**100C5**
	P06	**01EB100M**	**01C100M**	**01C6**
	P07	**02EB100M**	**02C100M**	**02C7**
	P54	**03B100M**	**03C100M**	**03C54**
3 15/16	**P05**	**100B315**	**100C315**	**100C5**
	P06	**01EB315**	**01C315**	**01C6**
	P07	**02EB315**	**02C315**	**02C7**
	P54	**03B315**	**03C315**	**03C54**
4	**P05**	**100B400**	**100C400**	**100C5**
	P06	**01EB400**	**01C400**	**01C6**
	P07	**02EB400**	**02C400**	**02C7**
	P54	**03B400**	**03C400**	**03C54**
105	**P06**	**01EB105M**	**01C105M**	**01C6**
	P07	**02EB105M**	**02C105M**	**02C7**
4 3/16	**P07**	**01EB403**	**01C403**	**01C7**
	P08	**02EB403**	**02C403**	**02C8**
110	**P06**	**100B110M**	**100C110M**	**100C6**
	P07	**01EB110M**	**01C110M**	**01C7**
	P08	**02EB110M**	**02C110M**	**02C8**
	P55	**03B110M**	**03C110M**	**03C55**
4 7/16	**P06**	**100B407**	**100C407**	**100C6**
	P07	**01EB407**	**01C407**	**01C7**
	P08	**02EB407**	**02C407**	**02C8**
	P55	**03B407**	**03C407**	**03C55**
4 1/2	**P06**	**100B408**	**100C408**	**100C6**
	P07	**01EB408**	**01C408**	**01C7**
	P08	**02EB408**	**02C408**	**02C8**
	P55	**03B408**	**03C408**	**03C55**
115	**P06**	**100B115M**	**100C115M**	**100C6**
	P07	**01EB115M**	**01C115M**	**01C7**
	P08	**02EB115M**	**02C115M**	**02C8**

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.



P08

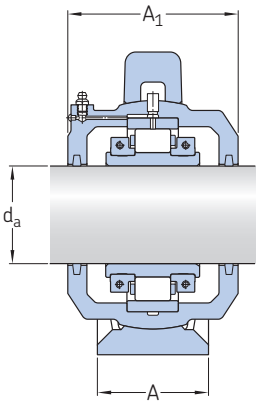


P54, P55

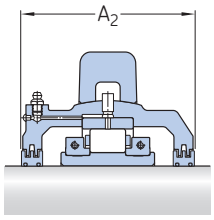
Shaft diameter	Dimensions											Attachment bolts	Mass Housing
d_a	A	A_1	A_2	A_3	H	H_1	H_2	J min.	J max.	J_1	L	G	
mm/*in.*	mm											–	kg
100	90	136	136	50	252	112	44	312	328	–	380	M24 or *7/8 in.*	13,5
	102	134	134	50	272	125	52	342	366	–	420	M24 or *7/8 in.*	14,5
	120	146	146	64	314	143	60	374	410	–	466	M24 or *7/8 in.*	20,5
	152	200	206	95	405	191	38	426	450	82	514	M24 or *7/8 in.*	61
3 15/16	90	136	136	50	380	112	44	312	328	–	252	M24 or *7/8 in.*	13,5
	102	134	134	50	272	125	52	342	366	–	420	M24 or *7/8 in.*	14,5
	120	146	146	64	314	143	60	374	410	–	466	M24 or *7/8 in.*	20,5
	152	200	206	95	405	191	38	426	450	82	514	M24 or *7/8 in.*	61
4	90	136	136	50	380	112	44	312	328	–	252	M24 or *7/8 in.*	13,5
	102	134	134	50	272	125	52	342	366	–	420	M24 or *7/8 in.*	14,5
	120	146	146	64	314	143	60	374	410	–	466	M24 or *7/8 in.*	20,5
	152	200	206	95	405	191	38	426	450	82	514	M24 or *7/8 in.*	61
105	102	134	134	50	272	125	52	342	366	–	420	M24 or *7/8 in.*	14,5
	120	146	146	64	314	143	60	374	410	–	466	M24 or *7/8 in.*	20,5
4 3/16	120	142	142	64	314	143	60	374	410	–	466	M24 or *7/8 in.*	20,5
	178	162	162	76	372	162	38	438	462	120	508	M24 or *7/8 in.*	43,5
110	102	134	134	50	272	125	52	342	366	–	420	M24 or *7/8 in.*	14,5
	120	142	142	64	314	143	60	374	410	–	466	M24 or *7/8 in.*	20,5
	178	162	162	76	372	162	38	438	462	120	508	M24 or *7/8 in.*	43,5
	166	210	222	102	425	197	38	446	470	88	534	M24 or *1 in.*	69
4 7/16	102	134	134	50	272	125	52	342	366	–	420	M24 or *7/8 in.*	14,5
	120	142	142	64	314	143	60	374	410	–	466	M24 or *7/8 in.*	20,5
	178	162	162	76	372	162	38	438	462	120	508	M24 or *7/8 in.*	43,5
	166	210	222	102	425	197	38	446	470	88	534	M24 or *1 in.*	69
4 1/2	102	134	134	50	272	125	52	342	366	–	420	M24 or *7/8 in.*	14,5
	120	142	142	64	314	143	60	374	410	–	466	M24 or *7/8 in.*	20,5
	178	162	162	76	372	162	38	438	462	120	508	M24 or *7/8 in.*	43,5
	166	210	222	102	425	197	38	446	470	88	534	M24 or *1 in.*	69
115	102	134	134	50	272	125	52	342	366	–	420	M24 or *7/8 in.*	14,5
	120	142	142	64	314	143	60	374	410	–	466	M24 or *7/8 in.*	20,5
	178	162	162	76	372	162	38	438	462	120	508	M24 or *7/8 in.*	43,5

4.1 Plummer block housings for split cylindrical roller bearings

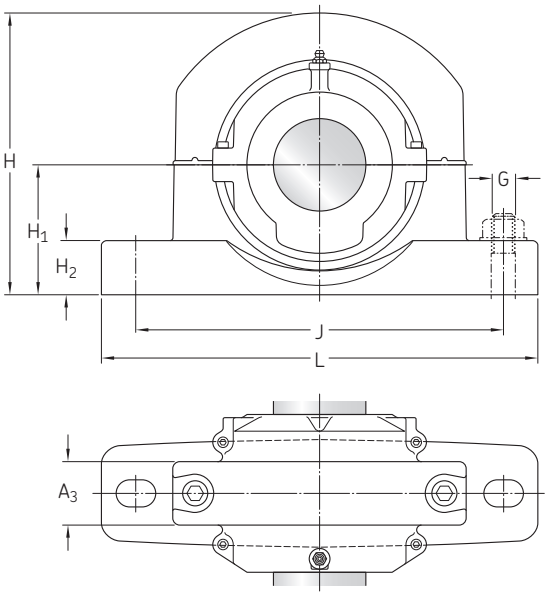
d_a **120 – 135** mm
4 15/16 – 5 1/2 *in.*



Felt seals



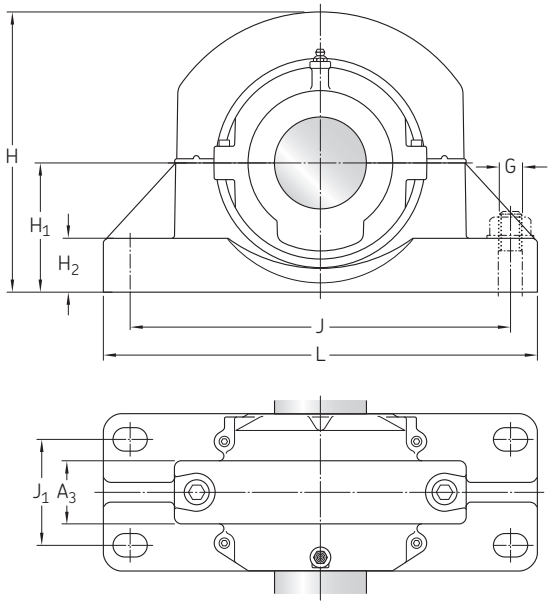
Labyrinth seals



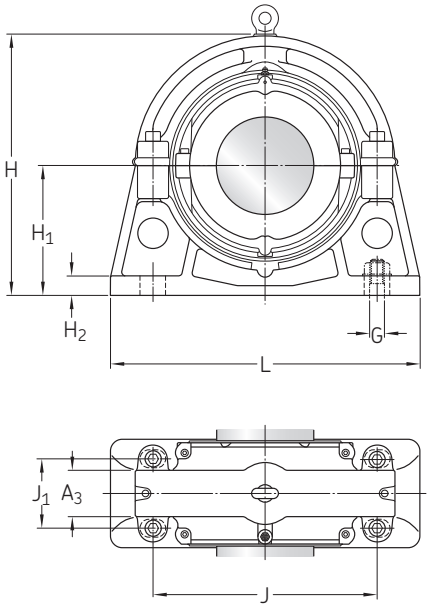
P07

Shaft diameter d_a	**Designations**[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
mm/*in.*	–			
120	**P07**	**100B120M**	**100C120M**	**100C7**
	P08	**01EB120M**	**01C120M**	**01C8**
	P10	**02EB120M**	**02C120M**	**02C10**
	P55	**03B120M**	**03C120M**	**03C55**
125	**P07**	**100B125M**	**100C125M**	**100C7**
	P08	**01EB125M**	**01C125M**	**01C8**
	P10	**02EB125M**	**02C125M**	**02C10**
4 15/16	**P07**	**100B415**	**100C415**	**100C7**
	P08	**01EB415**	**01C415**	**01C8**
	P10	**02EB415**	**02C415**	**02C10**
	P56	**03B415**	**03C415**	**03C56**
5	**P07**	**100B500**	**100C500**	**100C7**
	P08	**01EB500**	**01C500**	**01C8**
	P10	**02EB500**	**02C500**	**02C10**
	P56	**03B500**	**03C500**	**03C56**
130	**P07**	**100B130M**	**100C130M**	**100C7**
	P08	**01EB130M**	**01C130M**	**01C8**
	P10	**02EB130M**	**02C130M**	**02C10**
	P56	**03B130M**	**03C130M**	**03C56**
5 3/16	**P09**	**01EB503**	**01C503**	**01C9**
	P30	**02EB503**	**02C503**	**02C30**
135	**P09**	**01EB135M**	**01C135M**	**01C9**
5 7/16	**P08**	**100B507**	**100C507**	**100C8**
	P09	**01EB507**	**01C507**	**01C9**
	P30	**02EB507**	**02C507**	**02C30**
	P57	**03B507**	**03C507**	**03C57**
5 1/2	**P08**	**100B508**	**100C508**	**100C8**
	P09	**01EB508**	**01C508**	**01C9**
	P30	**02EB508**	**02C508**	**02C30**
	P57	**03B508**	**03C508**	**03C57**

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.



P08, P09, P30

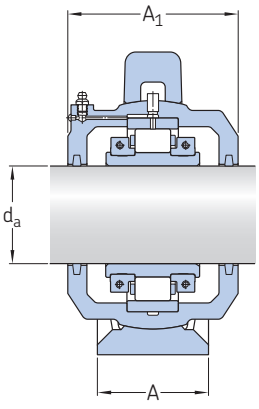


P55, P56, P57

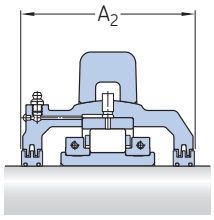
Shaft diameter	Dimensions											Attachment bolts	Mass Housing
d_a	A	A_1	A_2	A_3	H	H_1	H_2	J min.	J max.	J_1	L	G	
mm/*in.*	mm											–	kg
120	120	142	142	64	314	143	60	374	410	–	466	M24 or *7/8 in.*	20,5
	178	156	156	76	372	162	38	438	462	120	508	M24 or *7/8 in.*	43,5
	178	184	184	82	415	181	41	484	508	120	558	M24 or *7/8 in.*	54
	166	210	222	102	425	197	38	446	470	88	534	M24 or *1 in.*	69
125	120	142	142	64	314	143	60	374	410	–	466	M24 or *7/8 in.*	20,5
	178	156	156	76	372	162	38	438	462	120	508	M24 or *7/8 in.*	43,5
	178	184	184	82	415	181	41	484	508	120	558	M24 or *7/8 in.*	54
4 15/16	120	142	142	64	314	143	60	374	410	–	466	M24 or *7/8 in.*	20,5
	178	156	156	76	372	162	38	438	462	120	508	M24 or *7/8 in.*	43,5
	178	184	184	82	415	181	41	484	508	120	558	M24 or *7/8 in.*	54
	166	214	222	102	435	203	48	458	482	96	546	M24 or *1 in.*	74
5	120	142	142	64	314	143	60	374	410	–	466	M24 or *7/8 in.*	20,5
	178	156	156	76	372	162	38	438	462	120	508	M24 or *7/8 in.*	43,5
	178	184	184	82	415	181	41	484	508	120	558	M24 or *7/8 in.*	54
	166	214	222	102	435	203	48	458	482	96	546	M24 or *1 in.*	74
130	120	142	142	64	314	143	60	374	410	–	466	M24 or *7/8 in.*	20,5
	178	156	156	76	372	162	38	438	462	120	508	M24 or *7/8 in.*	43,5
	178	184	184	82	415	181	41	484	508	120	558	M24 or *7/8 in.*	54
	166	214	222	102	435	203	48	458	482	96	546	M24 or *1 in.*	74
5 3/16	178	168	168	76	405	181	41	470	494	120	558	M24 or *7/8 in.*	52
	178	188	188	90	460	203	51	534	558	120	610	M24 or *1 in.*	76
135	178	168	168	76	405	181	41	470	494	120	558	M24 or *7/8 in.*	52
5 7/16	178	156	156	76	372	162	38	438	462	120	508	M24 or *7/8 in.*	43,5
	178	168	168	76	405	181	41	470	494	120	558	M24 or *7/8 in.*	52
	178	188	188	90	460	203	51	534	558	120	610	M24 or *1 in.*	76
	178	216	230	108	485	229	54	494	534	102	622	M30 or *1 1/4 in.*	97
5 1/2	178	156	156	76	372	162	38	438	462	120	508	M24 or *7/8 in.*	43,5
	178	168	168	76	405	181	41	470	494	120	558	M24 or *7/8 in.*	52
	178	188	188	90	460	203	51	534	558	120	610	M24 or *1 in.*	76
	178	216	230	108	485	229	54	494	534	102	622	M30 or *1 1/4 in.*	97

4.1 Plummer block housings for split cylindrical roller bearings

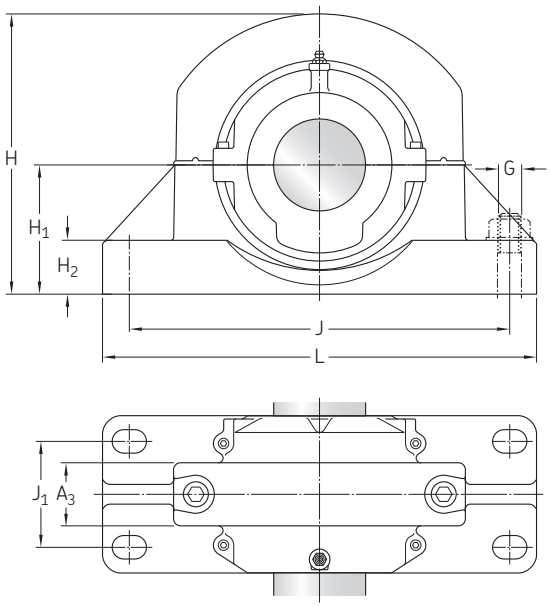
d_a **140 – 160** mm
5 15/16 – 6 1/2 *in.*



Felt seals



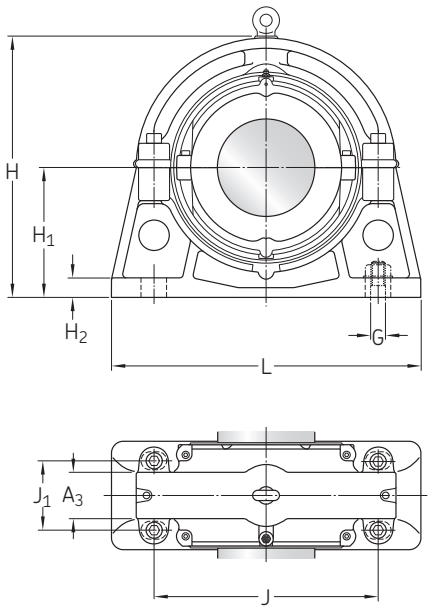
Labyrinth seals



P08, P09, P10, P30, P31

Shaft diameter d_a	**Designations**[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
mm/*in.*	–			
140	**P08**	**100B140M**	**100C140M**	**100C8**
	P09	**01EB140M**	**01C140M**	**01C9**
	P30	**02EB140M**	**02C140M**	**02C30**
	P57	**03B140M**	**03C140M**	**03C57**
145	**P30**	**02EB145M**	**02C145M**	**02C30**
150	**P09**	**100B150M**	**100C150M**	**100C9**
	P10	**01EB150M**	**01C150M**	**01C10**[2]
	P31	**02EB150M**	**02C150M**	**02C31**[2]
	P58	**03B150M**	**03C150M**	**03C58**
5 15/16	**P09**	**100B515**	**100C515**	**100C9**
	P10	**01EB515**	**01C515**	**01C10**
	P31	**02EB515**	**02C515**	**02C31**
	P58	**03B515**	**03C515**	**03C58**
6	**P09**	**100B600**	**100C600**	**100C9**
	P10	**01EB600**	**01C600**	**01C10**
	P31	**02EB600**	**02C600**	**02C31**
	P58	**03B600**	**03C600**	**03C58**
155	**P10**	**01EB155M**	**01C155M**	**01C10**
	P31	**02EB155M**	**02C155M**	**02C31**
160	**P10**	**01EB160MEX10**[2]	**01C160MEX14**[2]	**01C10EX10**[2]
	P10	**01EB160MGR10**[2]	**01C160MGR10**[2]	**01C10GR10**[2]
	P11	**01EB160M**	**01C160M**	**01C11**
	P31	**02EB160MEX10**[2]	**02C160MEX10**[2]	**02C31EX10**[2]
	P31	**02EB160MGR10**[2]	**02C160MGR10**[2]	**02C31GR10**[2]
	P32	**02EB160M**	**02C160M**	**02C32**
	P59	**03B160M**	**03C160M**	**03C59**
6 7/16	**P11**	**01EB607**	**01C607**	**01C11**
	P32	**02EB607**	**02C607**	**02C32**
	P59	**03B607**	**03C607**	**03C59**
6 1/2	**P11**	**01EB608**	**01C608**	**01C11**
	P32	**02EB608**	**02C608**	**02C32**
	P59	**03B608**	**03C608**	**03C59**

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.
[2] Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

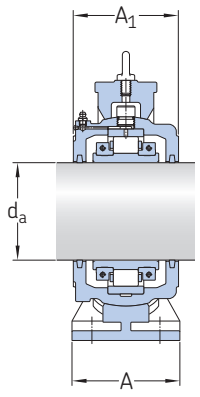


P11, P32, P57, P58, P59

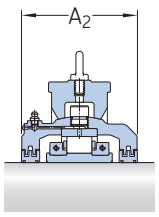
Shaft diameter	Dimensions											Attachment bolts	Mass Housing
d_a	A	A_1	A_2	A_3	H	H_1	H_2	J min.	J max.	J_1	L	G	
mm/*in.*	mm											–	kg
140	178	156	156	76	372	162	38	438	462	120	508	M24 or *7/8 in.*	43,5
	178	168	168	76	405	181	41	470	494	120	558	M24 or *7/8 in.*	52
	178	188	188	90	460	203	51	534	558	120	610	M24 or *1 in.*	76
	178	216	230	108	485	229	54	494	534	102	622	M30 or *1 1/4 in.*	97
145	178	188	188	90	460	203	51	534	558	120	610	M24 or *1 in.*	76
150	178	168	168	76	405	181	41	470	494	120	558	M24 or *7/8 in.*	52
	178	174	174	82	415	181	41	484	508	120	558	M24 or *7/8 in.*	54
	204	204	204	95	470	210	50	546	570	128	636	M24 or *1 in.*	83
	204	232	254	114	535	254	57	538	578	120	666	M30 or *1 1/4 in.*	142
5 15/16	178	168	168	76	405	181	41	470	494	120	558	M24 or *7/8 in.*	52
	178	174	174	82	415	181	41	484	508	120	558	M24 or *7/8 in.*	54
	204	204	204	95	470	210	50	546	570	128	636	M24 or *1 in.*	83
	204	232	254	114	535	254	57	538	578	120	666	M30 or *1 1/4 in.*	142
6	178	168	168	76	405	181	41	470	494	120	558	M24 or *7/8 in.*	52
	178	174	174	82	415	181	41	484	508	120	558	M24 or *7/8 in.*	54
	204	204	204	95	470	210	50	546	570	128	636	M24 or *1 in.*	83
	204	232	254	114	535	254	57	538	578	120	666	M30 or *1 1/4 in.*	142
155	178	174	174	82	415	181	41	484	508	120	558	M24 or *7/8 in.*	54
	204	204	204	95	470	210	50	546	570	128	636	M24 or *1 in.*	83
160	178	174	174	82	415	181	41	484	508	120	558	M24 or *7/8 in.*	54
	178	174	174	82	415	181	41	484	508	120	558	M24 or *7/8 in.*	54
	178	172	192	76	430	213	32	356	380	114	508	M24 or *1 in.*	53
	204	204	204	95	470	210	50	546	570	128	636	M24 or *1 in.*	83
	204	204	204	95	470	210	50	546	570	128	636	M24 or *1 in.*	83
	242	206	232	95	535	267	44	428	468	172	596	M30 or *1 1/4 in.*	106
	228	244	268	120	570	267	60	608	648	140	736	M30 or *1 1/4 in.*	162
6 7/16	178	172	192	76	430	213	32	356	380	114	508	M24 or *1 in.*	53
	242	206	232	95	535	267	44	428	468	172	596	M30 or *1 1/4 in.*	106
	228	244	268	120	570	267	60	608	648	140	736	M30 or *1 1/4 in.*	162
6 1/2	178	172	192	76	430	213	32	356	380	114	508	M24 or *1 in.*	53
	242	206	232	95	535	267	44	428	468	172	596	M30 or *1 1/4 in.*	106
	228	244	268	120	570	267	60	608	648	140	736	M30 or *1 1/4 in.*	162

4.1 Plummer block housings for split cylindrical roller bearings

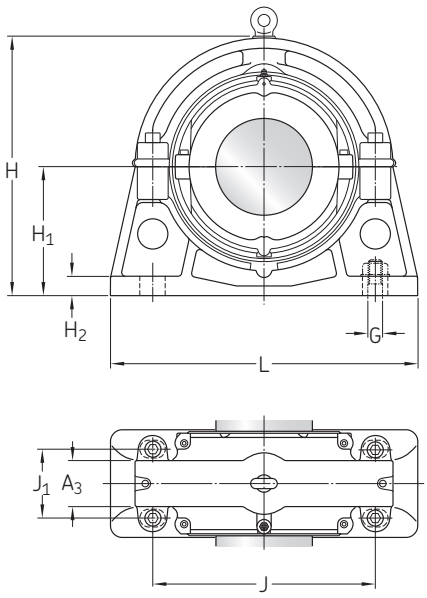
d_a **170 – 200** mm
6 15/16 – 8 *in.*



Felt seals



Labyrinth seals



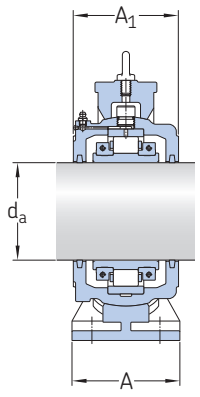
Shaft diameter d_a	Designations[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
mm/*in.*	–			
170	**P11**	**01EB170MEX13**[3]	**01C170MEX13**[3]	**01C11EX10**[3]
	P11	**01EB170MGR14**[3]	**01C170MGR15**[3]	**01C11GR10**[3]
	P12	**01EB170M**	**01C170M**	**01C12**
	P32	**02EB170M**	**02C170M**	**02C32EX10**[3]
	P32	**02EB170M**	**02C170M**	**02C32GR10**[3]
	P59	**03B170M**	**03C170M**	**03C59**
175	**P12**	**01EB175M**	**01C175M**	**01C12**
	P33	**02EB175M**	**02C175M**	**02C33**
6 15/16	**P12**	**01EB615**	**01C615**	**01C12**
	P33	**02EB615**	**02C615**	**02C33**
	P60	**03B615**	**03C615**	**03C60**
7	**P12**	**01EB700**	**01C700**	**01C12**
	P33	**02EB700**	**02C700**	**02C33**
	P60	**03B700**	**03C700**	**03C60**
180	**P12**	**01EB180M**	**01C180M**	**01C12**
	P33	**0E2B180M**	**02C180M**	**02C33**
	P60	**03B180M**	**03C180M**	**03C60**
190	**P13**	**01EB190M**	**01C190M**	**01C13**
	P34	**02EB190M**	**02C190M**	**02C34**
	P61	**03B190M**	**03C190M**	**03C61**
200	**P12**	**100B200M**	**100C200M**	[2]
	P13	**01EB200M**	**01C200M**	**01C13**
	P34	**02EB200M**	**02C200M**	**02C34**
	P61	**03B200M**	**03C200M**	**03C61**
7 15/16	**P12**	**100B715**	**100C715**	[2]
	P13	**01EB715**	**01C715**	**01C13**
	P34	**02EB715**	**02C715**	**02C34**
	P61	**03B715**	**03C715**	**03C61**
8	**P12**	**100B800**	**100C800**	[2]
	P13	**01EB800**	**01C800**	**01C13**
	P34	**02EB800**	**02C800**	**02C34**
	P61	**03B800**	**03C800**	**03C61**

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.
[2] Contact SKF.
[3] Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

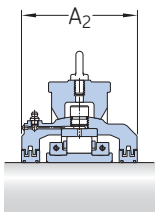
Shaft diameter	Dimensions											Attachment bolts	Mass Housing
d_a	A	A_1	A_2	A_3	H	H_1	H_2	J min.	J max.	J_1	L	G	
mm/*in.*	mm											–	kg
170	178	172	192	76	430	213	32	356	380	114	508	M24 or *1 in.*	53
	178	172	192	76	430	213	32	356	380	114	508	M24 or *1 in.*	53
	190	172	200	70	470	235	35	376	400	128	534	M24 or *1 in.*	63
	242	206	232	95	535	267	44	428	468	172	596	M30 or *1 1/4 in.*	106
	242	206	232	95	535	267	44	428	468	172	596	M30 or *1 1/4 in.*	106
	228	244	268	120	570	267	60	608	648	140	736	M30 or *1 1/4 in.*	162
175	190	172	200	70	470	235	35	376	400	128	534	M24 or *1 in.*	63
	242	222	242	95	545	273	44	438	478	166	636	M30 or *1 1/4 in.*	116
6 15/16	190	172	200	70	470	235	35	376	400	128	534	M24 or *1 in.*	63
	242	222	242	95	545	273	44	438	478	166	636	M30 or *1 1/4 in.*	116
	254	254	284	132	580	279	64	616	656	152	762	M30 or *1 1/4 in.*	172
7	190	172	200	70	470	235	35	376	400	128	534	M24 or *1 in.*	63
	242	222	242	95	545	273	44	438	478	166	636	M30 or *1 1/4 in.*	116
	254	254	284	132	580	279	64	616	656	152	762	M12 or *1/2 in.*	172
180	190	172	200	70	470	235	35	376	400	128	534	M24 or *1 in.*	63
	242	222	242	95	545	273	44	438	478	166	636	M30 or *1 1/4 in.*	116
	254	254	284	132	580	279	64	616	656	152	762	M30 or *1 1/4 in.*	172
190	204	172	200	86	495	248	38	410	434	140	572	M24 or *1 in.*	83
	266	235	258	105	610	305	50	488	528	190	686	M30 or *1 1/4 in.*	145
	266	270	300	146	655	311	67	616	656	172	838	M36 or *1 1/2 in.*	223
200	190	172	[2]	70	470	235	35	376	400	128	534	M24 or *1 in.*	63
	204	172	200	86	495	248	38	410	434	140	572	M24 or *1 in.*	83
	266	235	258	105	610	305	50	488	528	190	686	M30 or *1 1/4 in.*	145
	266	270	300	146	655	311	67	616	656	172	838	M36 or *1 1/2 in.*	223
7 15/16	190	172	[2]	70	470	235	35	376	400	128	534	M24 or *1 in.*	63
	204	172	200	86	495	248	38	410	434	140	572	M24 or *1 in.*	83
	266	235	258	105	610	305	50	488	528	190	686	M30 or *1 1/4 in.*	145
	266	270	300	146	655	311	67	616	656	172	838	M36 or *1 1/2 in.*	223
8	190	172	[2]	70	470	235	35	376	400	128	534	M24 or *1 in.*	63
	204	172	200	86	495	248	38	410	434	140	572	M24 or *1 in.*	83
	266	235	258	105	610	305	50	488	528	190	686	M30 or *1 1/4 in.*	145
	266	270	300	146	655	311	67	616	656	172	838	M36 or *1 1/2 in.*	223

4.1 Plummer block housings for split cylindrical roller bearings

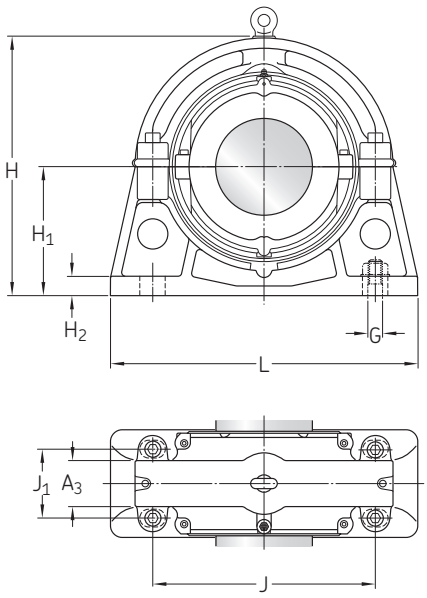
d_a **220 – 275** mm
9 – 10 *in.*



Felt seals



Labyrinth seals



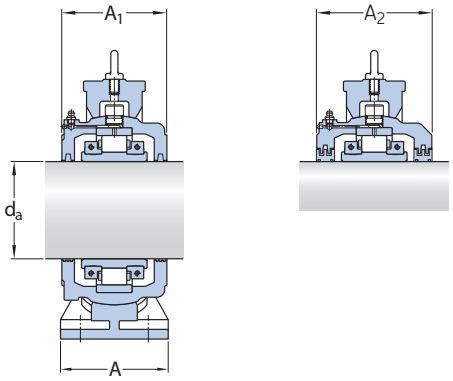
Shaft diameter d_a	Designations[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
mm/*in.*	–			
220	**P13**	**100B220M**	**100C220M**	[2]
	P14	**01EB220M**	**01C220M**	**01C14**
	P35	**02EB220M**	**02C220M**	**02C35**
	P62	**03B220M**	**03C220M**	**03C62**
9	**P14**	**01EB900**	**01C900**	**01C14**
	P35	**02EB900**	**02C900**	**02C35**
	P62	**03B900**	**03C900**	**03C62**
230	**P14**	**01EB230M**	**01C230M**	**01C14**
	P35	**02EB230M**	**02C230M**	**02C35**
240	**P15**	**01EB240M**	**01C240M**	**01C15**
	P36	**02EB240M**	**02C240M**	**02C36**
	P63	**03B240M**	**03C240M**	**03C63**
250	**P15**	**01EB250M**	**01C250M**	**01C15**
	P36	**02EB250M**	**02C250M**	**02C36**
	P63	**03B250M**	**03C250M**	**03C63**
10	**P15**	**01EB1000**	**01C1000**	**01C15**
	P36	**02EB1000**	**02C1000**	**02C36**
	P63	**03B1000**	**03C1000**	**03C63**
260	**P15**	**01EB260MEX16**[3]	**01C260MEX15**[3]	**01C15EX15**[3]
	P15	**01EB260MGR15**[3]	**01C260MGR12**[3]	**01C15GR13**[3]
	P16	**01EB260M**	**01C260M**	**01C16**
	P36	**02EB260M**	**02C260M**	**02C36EX10**[3]
	P36	**02EB260M**	**02C260M**	**02C36GR11**[3]
	P63	**03B260M**	**03C260M**	**03C63EX10**[3]
	P63	**03B260M**	**03C260M**	**03C63GR10**[3]
270	**P16**	**01EB270M**	**01C270M**	**01C16**
275	**P16**	**01EB275M**	**01C275M**	**01C16**

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.
[2] Contact SKF.
[3] Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

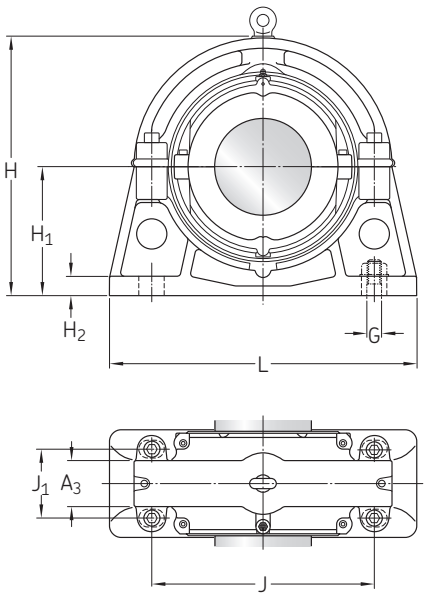
Shaft diameter	Dimensions											Attachment bolts	Mass Housing
d_a	A	A_1	A_2	A_3	H	H_1	H_2	J min.	J max.	J_1	L	G	
mm/*in.*	mm											–	kg
220	204	172	[2]	86	495	248	38	410	434	140	572	M24 or *1 in.*	83
	216	178	216	82	540	270	40	440	480	140	636	M30 or *1 1/4 in.*	90
	280	242	274	110	650	324	50	530	570	190	750	M36 or *1 1/2 in.*	179
	280	298	334	165	730	349	76	716	756	178	952	M42 or *1 3/4 in.*	309
9	216	178	216	82	540	270	40	440	480	140	636	M30 or *1 1/4 in.*	90
	280	242	274	110	650	324	50	530	570	190	750	M36 or *1 1/2 in.*	179
	280	198	334	165	730	349	76	716	756	178	952	M42 or *1 3/4 in.*	309
230	216	178	216	82	540	270	40	440	480	140	636	M30 or *1 1/4 in.*	90
	280	242	274	110	650	324	50	530	570	190	750	M36 or *1 1/2 in.*	179
240	228	188	222	90	585	292	44	482	522	140	686	M30 or *1 1/4 in.*	114
	292	248	280	118	710	356	54	576	616	204	812	M36 or *1 1/2 in.*	212
	406	298	334	165	790	394	76	650	690	304	914	M42 or *1 3/4 in.*	392
250	228	188	222	90	585	292	44	482	522	140	686	M30 or *1 1/4 in.*	114
	292	248	280	118	710	356	54	576	616	204	812	M36 or *1 1/2 in.*	212
	406	298	334	165	790	394	76	650	690	304	914	M42 or *1 3/4 in.*	392
10	228	188	222	90	585	292	44	482	522	140	686	M30 or *1 1/4 in.*	114
	292	248	280	118	710	356	54	576	616	204	812	M36 or *1 1/2 in.*	212
	406	298	334	165	790	394	76	650	690	304	914	M42 or *1 3/4 in.*	392
260	228	188	222	90	585	292	44	482	522	140	686	M30 or *1 1/4 in.*	114
	228	188	222	90	585	292	44	482	522	140	686	M30 or *1 1/4 in.*	114
	228	204	232	95	620	311	48	514	554	140	724	M30 or *1 1/4 in.*	142
	292	248	280	118	710	356	54	576	616	204	812	M36 or *1 1/2 in.*	212
	292	248	280	118	710	356	54	576	616	204	812	M36 or *1 1/2 in.*	212
	406	298	334	165	790	394	76	650	690	304	914	M42 or *1 3/4 in.*	392
	406	298	334	165	790	394	76	650	690	304	914	M42 or *1 3/4 in.*	392
270	228	204	232	95	620	311	48	514	554	140	724	M30 or *1 1/4 in.*	142
275	228	204	232	95	620	311	48	514	554	140	724	M30 or *1 1/4 in.*	142

4.1 Plummer block housings for split cylindrical roller bearings

d_a **280 – 350** mm
11 – 13 *in.*

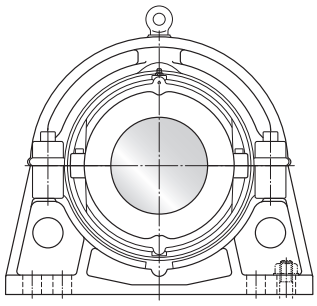


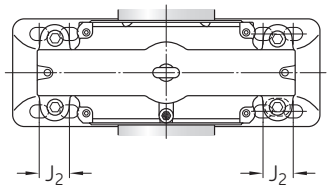
Felt / Grease groove seals Labyrinth seals



Shaft diameter d_a	Designations[1] Housing	Bearing	Cartridge with felt / grease groove seals	Cartridge for labyrinth seals
mm/*in.*	–			
11	P16	01EB1100	01C1100	01C16
	P37	02EB1100	02C1100	02C37
	P83	03EB1100	03EC1100	03EC83
280	P16	01EB280M	01C280M	01C16
	P37	02EB280M	02C280M	02C37
	P83	03EB280M	03EC280M	03EC83
290	P17	01EB290M	01C290M	01C17
	P65	03B290M	03C290M	03C65
300	P17	01EB300M	01C300M	01C17
	P38	02EB300M	02C300M	02C38
	P65	03B300M	03C300M	03C65
12	P17	01EB1200	01C1200	01C17
	P38	02EB1200	02C1200	02C38
	P65	03B1200	03C1200	03C65
320	P18	01B320M	01C320M	01C18
	P39	02B320M	02C320M	02C39
	P66	03B320M	03C320M	03C66
330	P18	01B330M	01C330M	01C18
	P39	02B330M	02C330M	02C39
13	P18	01B1300	01C1300	01C18
	P39	02B1300	02C1300	02C39
	P66	03B1300	03C1300	03C66
340	P18	01B340MEX13[2]	01C340MEX12[2]	01C18EX[2]
	P18	01B340MGR13[2]	01C340MGR11[2]	01C18GR[2]
	P19	01B340M	01C340M	01C19
	P40	02B340M	02C340M	02C40
	P86	03EB340M	03EC340M	03EC86
350	P19	01B350M	01C350M	01C19
	P40	02B350M	02C350M	02C40

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.
[2] Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

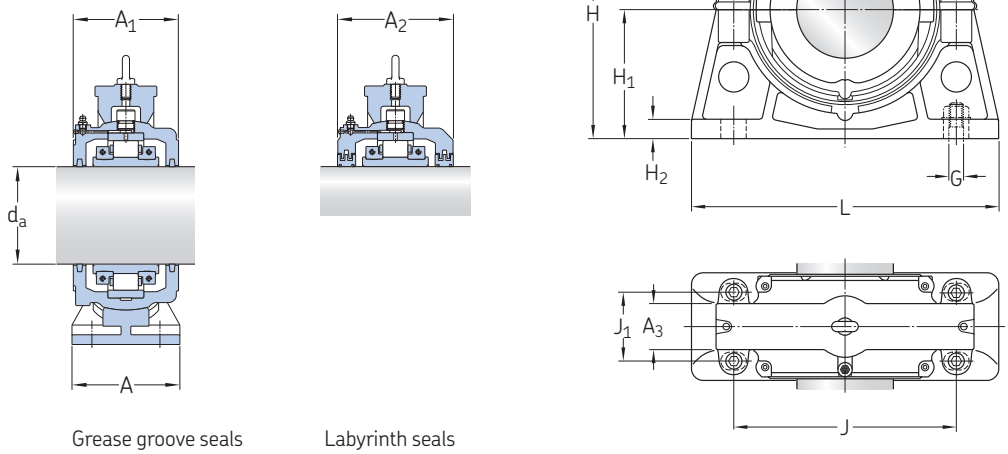




Shaft diameter	Dimensions												Attachment bolts	Mass Housing
d_a	A	A_1	A_2	A_3	H	H_1	H_2	J min.	J max.	J_1	J_2	L	G	
mm/*in.*	mm												–	kg
11	228	204	232	95	620	311	48	514	554	140	–	724	M30 or *1 1/4 in.*	142
	330	264	300	130	760	378	60	514	554	254	101	914	M30 or *1 1/4 in.*	292
	280	356	356	165	785	368	70	482	522	178	120	940	M36 or *1 1/2 in.*	205
280	228	204	232	95	620	311	48	514	554	140	–	724	M30 or *1 1/4 in.*	142
	330	264	300	130	760	378	60	514	554	254	101	914	M30 or *1 1/4 in.*	292
	280	356	356	165	785	368	70	482	522	178	120	940	M36 or *1 1/2 in.*	205
290	254	216	248	98	685	343	50	564	604	178	–	762	M30 or *1 1/4 in.*	169
	420	346	370	165	915	457	76	654	694	330	101	1 092	M36 or *1 1/2 in.*	586
300	254	216	248	98	685	343	50	564	604	178	–	762	M30 or *1 1/4 in.*	169
	330	268	306	128	790	394	60	546	570	254	101	958	M30 or *1 1/4 in.*	330
	420	346	370	165	915	457	76	654	694	330	101	1 092	M36 or *1 1/2 in.*	586
12	254	216	246	98	685	343	50	564	604	178	–	762	M30 or *1 1/4 in.*	169
	300	368	306	128	790	394	60	546	570	254	101	958	M30 or *1 1/4 in.*	330
	420	346	370	165	915	457	76	654	694	330	101	1 092	M36 or *1 1/2 in.*	586
320	254	260	272	95	735	368	54	602	642	178	–	812	M36 or *1 1/2 in.*	196
	292	298	330	128	840	419	64	590	630	210	101	1 016	M30 or *1 1/4 in.*	383
	356	368	418	170	1 035	518	80	742	782	266	108	1 194	M36 or *1 1/2 in.*	655
330	254	260	272	95	735	368	54	602	642	178	–	812	M36 or *1 1/2 in.*	196
	292	298	330	128	840	419	64	590	630	210	101	1 016	M30 or *1 1/4 in.*	383
13	254	260	272	95	735	368	54	602	642	178	–	812	M36 or *1 1/2 in.*	196
	292	298	330	128	840	419	64	590	630	210	101	1 016	M30 or *1 1/4 in.*	383
	356	368	418	170	1 035	518	80	742	782	266	108	1 194	M36 or *1 1/2 in.*	655
340	254	260	272	95	735	368	54	602	642	178	–	812	M36 or *1 1/2 in.*	196
340	254	260	272	95	735	368	54	602	642	178	–	812	M36 or *1 1/2 in.*	196
	254	260	272	98	775	387	57	634	674	166	–	850	M36 or *1 1/2 in.*	213
	368	305	342	146	900	451	67	640	680	280	102	1 092	M36 or *1 1/2 in.*	429
	318	432	432	196	1 000	470	82	634	686	190	134	1 220	M42 or *1 3/4 in.*	464
350	254	260	272	98	775	387	57	634	674	166	–	850	M36 or *1 1/2 in.*	213
	368	305	342	146	900	451	67	640	680	280	102	1 092	M36 or *1 1/2 in.*	429

4.1 Plummer block housings for split cylindrical roller bearings

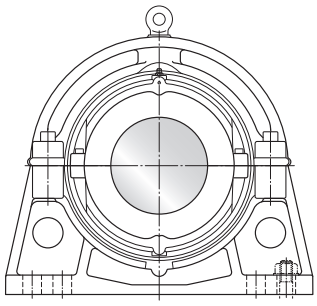
d_a **360 – 440** mm
14 – 17 *in.*

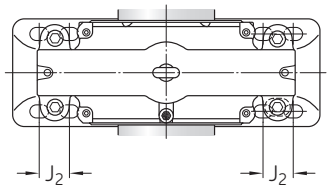


Grease groove seals Labyrinth seals

Shaft diameter d_a	Designations[1] Housing	Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals
mm/*in.*	–			
14	**P19**	**01B1400**	**01C1400**	**01C19**
	P40	**02B1400**	**02C1400**	**02C40**
	P86	**03EB1400**	**03EC1400**	**03EC86**
360	**P19**	**01B360MEX15**[2]	**01C360MEX13**[2]	**01C19EX**[2]
	P19	**01B360MGR15**[2]	**01C360MGR16**[2]	**01C19GR**[2]
	P20	**01B360M**	**01C360M**	**01C20**
	P40	**02B360M**	**02C360M**	**02C40**
	P86	**03EB360M**	**03EC360M**	**03EC86**
380	**P20**	**01B380M**	**01C380M**	**01C20**
	P41	**02B380M**	**02C380M**	**02C41**
	P68	**03B380M**	**03C380M**	**03C68**
15	**P20**	**01B1500**	**01C1500**	**01C20**
	P41	**02B1500**	**02C1500**	**02C41**
	P68	**03B1500**	**03C1500**	**03C68**
390	**P21**	**01B390M**	**01C390M**	**01C21**
400	**P21**	**01B400M**	**01C400M**	**01C21**
	P42	**02B400M**	**02C400M**	**02C42**
	P68	**03B400M**	**03C400M**	**03C68**
16	**P21**	**01B1600**	**01C1600**	**01C21**
	P42	**02B1600**	**02C1600**	**02C42**
420	**P22**	**01B420M**	**01C420M**	**01C22**
	P43	**02B420M**	**02C420M**	**02C43**
	P89	**03EB420M**	**03EC420M**	**03EC89**
17	**P22**	**01B1700**	**01C1700**	**01C22**
	P43	**02B1700**	**02C1700**	**02C43**
	P89	**03EB1700**	**03EC1700**	**03EC89**
440	**P23**	**01B440M**	**01C440M**	**01C23**
	P44	**02B440M**	**02C440M**	**02C44**
	P89	**03EB440M**	**03EC440M**	**03EC89**

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.
[2] Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

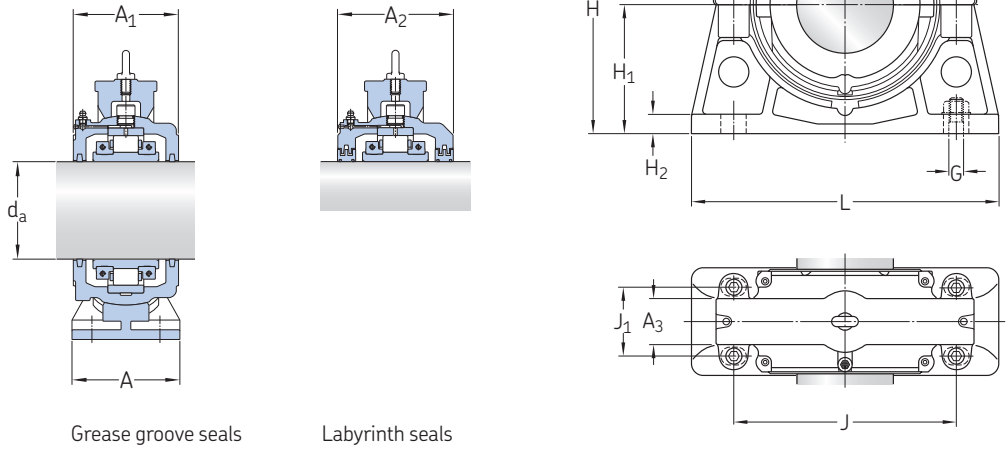




Shaft diameter	Dimensions												Attachment bolts	Mass Housing
d_a	A	A_1	A_2	A_3	H	H_1	H_2	J min.	J max.	J_1	J_2	L	G	
mm/*in.*	mm												–	kg
14	254	260	272	98	775	387	57	634	674	166	–	850	M36 or *1 1/2 in.*	213
	368	305	342	146	900	451	67	640	680	280	102	1 092	M36 or *1 1/2 in.*	429
	318	432	432	196	1 000	470	82	634	686	190	134	1 220	M42 or *1 3/4 in.*	464
360	254	260	272	98	775	387	57	634	674	166	–	850	M36 or *1 1/2 in.*	213
	254	260	272	98	775	387	57	634	674	166	–	850	M36 or *1 1/2 in.*	213
	254	260	280	98	795	397	60	656	696	166	–	902	M36 or *1 1/2 in.*	288
	368	305	342	146	900	451	67	640	680	280	102	1 092	M36 or *1 1/2 in.*	429
	318	432	432	196	1 000	470	82	634	686	190	134	1 220	M42 or *1 3/4 in.*	464
380	254	260	280	98	795	397	60	656	696	166	–	902	M36 or *1 1/2 in.*	288
	368	305	342	146	925	464	67	662	702	280	102	1 092	M36 or *1 1/2 in.*	445
	394	400	438	202	1 120	559	92	780	832	292	115	1 270	M42 or *1 3/4 in.*	859
15	254	260	280	98	795	397	60	656	696	166	–	902	M36 or *1 1/2 in.*	288
	368	305	342	146	925	464	67	662	702	280	102	1 092	M36 or *1 1/2 in.*	445
	394	400	438	202	1 120	559	92	780	832	292	115	1 270	M42 or *1 3/4 in.*	859
390	254	280	286	102	865	432	67	704	744	166	–	940	M36 or *1 1/2 in.*	309
400	254	280	286	102	865	432	67	704	744	166	–	940	M36 or *1 1/2 in.*	309
	368	324	350	146	990	495	70	710	750	280	102	1 168	M36 or *1 1/2 in.*	537
	394	400	438	202	1 120	559	92	780	832	292	115	1 270	M42 or *1 3/4 in.*	859
16	254	280	286	102	865	432	67	704	744	166	–	940	M36 or *1 1/2 in.*	309
	368	324	350	146	990	495	70	710	750	280	102	1 168	M36 or *1 1/2 in.*	537
420	254	292	298	102	890	445	67	736	776	166	–	966	M36 or *1 1/2 in.*	316
	368	324	356	146	1 030	514	70	748	788	280	102	1 194	M36 or *1 1/2 in.*	564
	360	440	442	200	1 075	508	90	664	716	210	150	1 270	M48 or *2 in.*	482
17	254	292	298	102	890	445	67	736	776	166	–	966	M36 or *1 1/2 in.*	316
	368	324	356	146	1 030	514	70	748	788	280	102	1 194	M36 or *1 1/2 in.*	564
	360	440	442	200	1 075	508	90	664	716	210	150	1 270	M48 or *2 in.*	482
440	280	304	310	108	925	464	70	768	808	190	–	1 042	M42 or *1 3/4 in.*	370
	368	324	356	146	1 070	533	73	768	808	280	104	1 244	M36 or *1 1/2 in.*	564
	360	440	442	200	1 075	508	90	664	716	210	150	1 270	M48 or *2 in.*	482

4.1 Plummer block housings for split cylindrical roller bearings

d_a **460 – 580** mm
18 – 22 *in.*

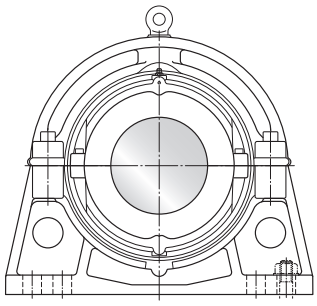


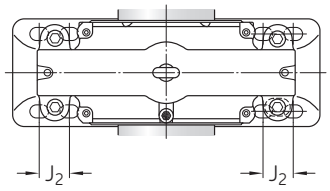
Grease groove seals

Labyrinth seals

Shaft diameter d_a	**Designations**[1] Housing	Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals
mm/*in.*	–			
18	**P23**	**01B1800**	**01C1800**	**01C23**
	P44	**02B1800**	**02C1800**	**02C44**
	P90	**03EB1800**	**03EC1800**	**03EC90**
460	**P23**	**01B460M**	**01C460M**	**01C23**
	P44	**02B460M**	**02C460M**	**02C44**
	P90	**03EB460M**	**03EC460M**	**03EC90**
480	**P24**	**01B480M**	**01C480M**	**01C24**
	P45	**02B480M**	**02C480M**	**02C45**
19	**P24**	**01B1900**	**01C1900**	**01C24**
	P45	**02B1900**	**02C1900**	**02C45**
500	**P25**	**01B500M**	**01C500M**	**01C25**
	P46	**02B500M**	**02C500M**	**02C46**
	P94	**03B500M**	**03C500M**	**03C94**
20	**P25**	**01B2000**	**01C2000**	**01C25**
	P46	**02B2000**	**02C2000**	**02C46**
	P94	**03B2000**	**03C2000**	**03C94**
530	**P26**	**01B530M**	**01C530M**	**01C26**
	P47	**02B530M**	**02C530M**	**02C47**
	P94	**03B530M**	**03C530M**	**03C94**
21	**P26**	**01B2100**	**01C2100**	**01C26**
	P47	**02B2100**	**02C2100**	**02C47**
22	**P27**	**01B2200**	**01C2200**	**01C27**
	P48	**02B2200**	**02C2200**	**02C48**
	P94	**03EB2200**	**03EC2200**	**03EC94**
560	**P27**	**01B560M**	**01C560M**	**01C27**
	P48	**02B560M**	**02C560M**	**02C48**
	P94	**03EB560M**	**03EC560M**	**03EC94**
580	**P28**	**01B580M**	**01C580M**	**01C28**
	P49	**02B580M**	**02C580M**	**02C49**

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

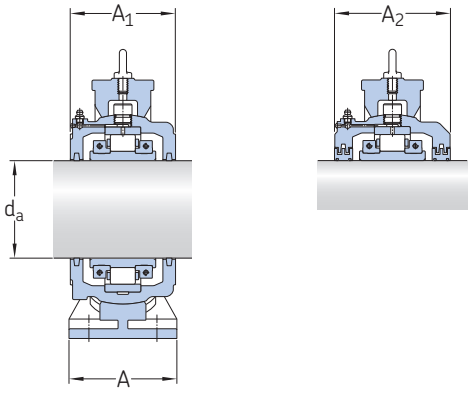




Shaft diameter	Dimensions												Attachment bolts	Mass Housing
d_a	A	A_1	A_2	A_3	H	H_1	H_2	J min.	J max.	J_1	J_2	L	G	
mm/*in.*	mm												–	kg
18	280	304	310	108	925	464	70	768	808	190	–	1 042	M42 or *1 3/4 in.*	370
	368	324	356	146	1 070	533	73	768	808	280	104	1 244	M36 or *1 1/2 in.*	564
	380	450	450	200	1 165	550	95	754	806	220	150	1 370	M48 or *2 in.*	705
460	280	310	310	108	925	464	70	768	808	190	–	1 042	M42 or *1 3/4 in.*	370
	368	324	356	146	1 070	533	73	768	808	280	104	1 244	M36 or *1 1/2 in.*	564
	380	450	450	200	1 165	550	95	754	806	220	150	1 370	M48 or *2 in.*	705
480	304	304	324	108	965	483	73	796	836	188	–	1 092	M42 or *1 3/4 in.*	402
	368	338	374	146	1 110	552	76	792	832	280	115	1 270	M36 or *1 1/2 in.*	690
19	304	304	324	108	965	483	73	796	836	188	–	1 092	M42 or *1 3/4 in.*	402
	368	338	374	146	1 110	552	76	792	832	280	115	1 270	M36 or *1 1/2 in.*	690
500	304	304	330	114	980	489	76	824	864	216	–	1 092	M42 or *1 3/4 in.*	402
	368	350	374	146	1 145	572	80	824	864	280	115	1 296	M36 or *1 1/2 in.*	677
	406	495	508	204	1 340	622	102	914	966	242	165	1 600	M56 or *2 1/4 in.*	1 000
20	304	304	330	114	980	489	76	824	864	216	–	1 092	M42 or *1 3/4 in.*	402
	368	350	374	146	1 145	572	80	824	864	280	115	1 296	M36 or *1 1/2 in.*	677
	406	495	508	204	1 340	622	102	914	966	242	165	1 600	M56 or *2 1/4 in.*	1 000
530	304	330	336	114	1 065	533	80	884	924	206	–	1 194	M42 or *1 3/4 in.*	495
	368	350	374	150	1 180	591	83	870	910	280	114	1 398	M36 or *1 1/2 in.*	905
	406	495	508	204	1 340	622	102	914	966	242	165	1 600	M56 or *2 1/4 in.*	1 000
21	304	330	336	114	1 065	533	80	884	924	206	–	1 194	M42 or *1 3/4 in.*	495
	368	350	374	150	1 180	591	83	870	910	280	114	1 398	M36 or *1 1/2 in.*	905
22	304	336	342	114	1 110	552	83	916	956	206	–	1 220	M42 or *1 3/4 in.*	570
	382	356	380	152	1 230	616	86	904	956	280	114	1 422	M42 or *1 3/4 in.*	965
	406	490	490	204	1 340	622	102	914	966	242	165	1 600	M56 or *2 1/4 in.*	1 000
560	304	336	342	114	1 110	552	83	916	956	206	–	1 220	M42 or *1 3/4 in.*	570
	382	356	380	152	1 230	616	86	904	956	280	114	1 422	M42 or *1 3/4 in.*	965
	406	490	490	204	1 340	622	102	914	966	242	165	1 600	M56 or *2 1/4 in.*	1 000
580	304	342	348	120	1 156	578	90	857	896	220	102	1 346	M36 or *1 1/2 in.*	630
	382	356	380	152	1 270	635	90	932	984	280	115	1 448	M42 or *1 3/4 in.*	1 000

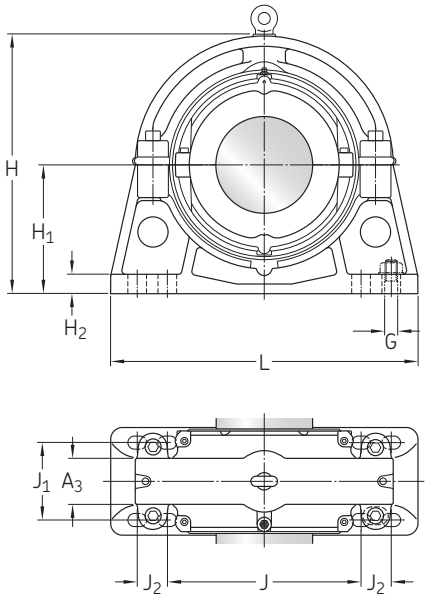
4.1 Plummer block housings for split cylindrical roller bearings

d_a **600** mm
23 – 24 *in.*



Grease groove seals

Labyrinth seals



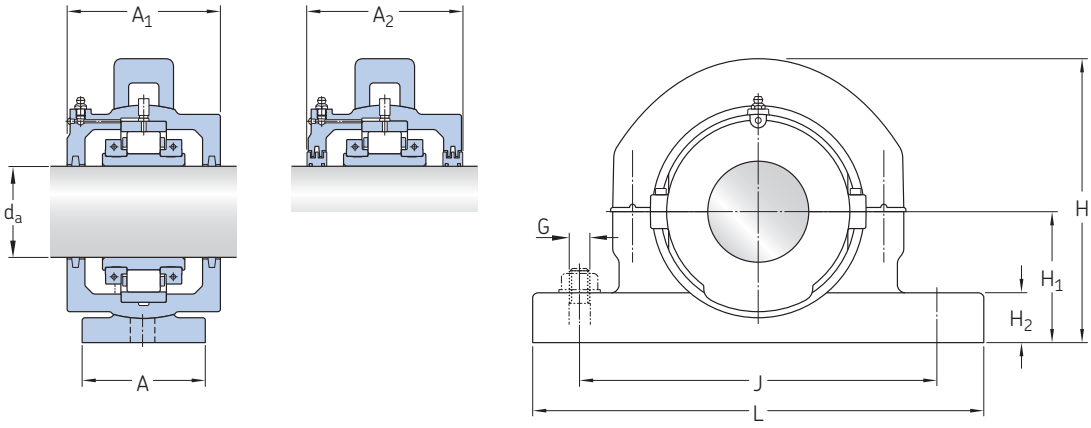
Shaft diameter d_a	**Designations**[1] Housing	Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals
mm/*in.*	–			
23	**P28**	**01B2300**	**01C2300**	**01C28**
	P49	**02B2300**	**02C2300**	**02C49**
	P95	**03EB2300**	**03EC2300**	**03EC95**
600	**P29**	**01B600M**	**01C600M**	**01C29**
	P50	**02B600M**	**02C600M**	**02C50**
	P95	**03EB600M**	**03EC600M**	**03EC95**
24	**P29**	**01B2400**	**01C2400**	**01C29**
	P50	**02B2400**	**02C2400**	**02C50**

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

Shaft diameter	Dimensions												Attachment bolts	Mass Housing
d_a	A	A_1	A_2	A_3	H	H_1	H_2	J min.	 max.	J_1	J_2	L	G	
mm/*in.*	mm												–	kg
23	304	342	348	120	1 156	578	90	857	896	220	102	1 346	M36 or *1 1/2 in.*	630
	382	356	380	152	1 270	635	90	932	984	280	115	1 448	M42 or *1 3/4 in.*	1 000
	406	490	490	204	1 340	622	406	914	966	242	165	184	M56 or *2 1/4 in.*	930
600	304	342	348	120	1 200	597	90	888	928	220	105	1 372	M36 or *1 1/2 in.*	630
	382	388	394	152	1 345	673	92	984	1 036	280	114	1 524	M42 or *1 3/4 in.*	1 050
	406	490	490	204	1 340	622	406	914	966	242	165	1 600	M56 or *2 1/4 in.*	930
24	304	342	348	120	1 200	597	90	888	928	84,1	105	1 372	M36 or *1 1/2 in.*	630
	382	388	394	152	1 345	673	92	984	1 036	280	114	1 524	M42 or *1 3/4 in.*	1 050

4.2 SN interchangeable plummer block housings

d_a **60 – 140** mm



Felt seals

Labyrinth seals

Shaft diameter d_a	Designations[1] Housing[2]	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
mm	–			
60	**SNC513**	**01EB60M**	**01C60M**	**01C3**
65	**SNC515**	**01EB65M**	**01C65M**	**01C3**
70	**SNC516**	**01EB70M**	**01C70M**	**01C4**
75	**SNC517**	**01EB75M**	**01C75M**	**01C4**
80	**SNC518**	**01EB80M**	**01C80M**	**01C5**
85	**SNC519**	**01EB85M**	**01C85M**	**01C5**
90	**SNC520**	**01EB90M**	**01C90M**	**01C5**
100	**SNC522**	**01EB100M**	**01C100M**	**01C6**
110	**SNC524**	**01EB110M**	**01C110M**	**01C7**
115	**SNC526**	**01EB115M**	**01C115M**	**01C7**
125	**SNC528**	**01EB125M**	**01C125M**	**01C8**
135	**SNC530**	**01EB135M**	**01C135M**	**01C9**
140	**SNC532**	**01EB140M**	**01C140M**	**01C9**

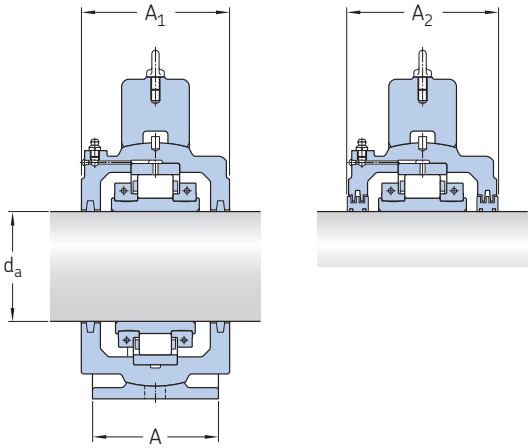
[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

[2] SNC519 and larger are made of ductile iron (SSNC500 series) as standard and are supplied without slots for attachment bolts. The housings can be drilled for two or four attachment bolts. For additional information, contact SKF.

Shaft diameter	Dimensions									Attachment bolts	Mass Housing
d_a	A	A_1	A_2	H	H_1	H_2	J min.	max.	L	G	
mm	mm									–	kg
60	70	104	104	180	80	32	226	242	280	M16	4,9
65	70	104	104	180	80	32	226	242	280	M16	4,9
70	90	114	114	208	95	38	254	266	315	M20	7,3
75	90	114	114	208	95	38	254	266	315	M20	7,3
80	100	136	136	240	100	32	284	296	345	M20	13,5
85	100	136	136	252	112	44	284	296	345	M20	15
90	90	136	136	252	112	44	312	328	380	M24	13,5
100	102	134	134	272	125	52	342	366	420	M24	14,5
110	120	142	142	310	140	45	344	356	410	M24	19,5
115	130	142	142	320	150	50	372	388	450	M24	22,5
125	150	156	156	360	150	50	414	426	500	M30	38
135	160	168	168	386	160	56	444	456	530	M30	40
140	178	168	168	391	170	41	462	478	558	M30	52

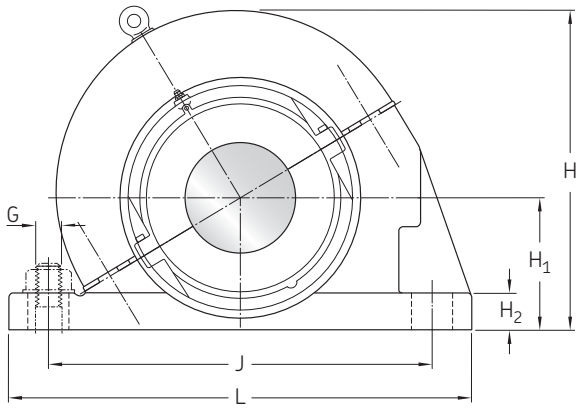
4.3 SN interchangeable angled plummer block housings

d_a **50 – 140** mm



Felt seals

Labyrinth seals



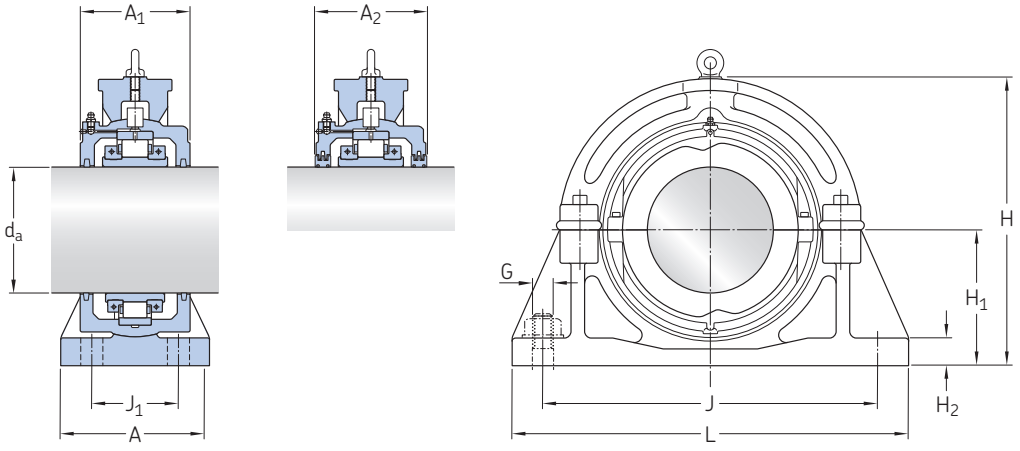
Shaft diameter[1] d_a	**Designations**[2] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
mm	–			
50	**SNQ511**	**01EB50M**	**01C50M**	**01C2**
60	**SNQ513**	**01EB60M**	**01C60M**	**01C3**
65	**SNQ515**	**01EB65M**	**01C65M**	**01C3**
75	**SNQ517**	**01EB75M**	**01C75M**	**01C4**
80	**SNQ518**	**01EB80M**	**01C80M**	**01C5**
90	**SNQ520**	**01EB90M**	**01C90M**	**01C5**
100	**SNQ522**	**01EB100M**	**01C100M**	**01C6**
110	**SNQ524**	**01EB110M**	**01C110M**	**01C7**
115	**SNQ526**	**01EB115M**	**01C115M**	**01C7**
125	**SNQ528**	**01EB125M**	**01C125M**	**01C8**
135	**SNQ530**	**01EB135M**	**01C135M**	**01C9**
140	**SNQ532**	**01EB140M**	**01C140M**	**01C9**

[1] Most common shaft sizes. Other sizes are available on request.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

Shaft diameter[1]	Dimensions									Attachment bolts	Mass Housing
d_a	A	A_1	A_2	H	H_1	H_2	J min.	 max.	L	G	
mm	mm									–	kg
50	60	98	98	158	70	25	203	219	255	M16	3,9
60	70	104	104	180	80	26	226	242	280	M16	6,0
65	70	104	104	180	80	26	226	242	280	M16	6,0
75	90	114	114	208	95	38	254	280	315	M20	9,7
80	100	136	136	240	100	32	284	296	345	M20	14,5
90	90	136	136	253	112	44	312	328	380	M24	17,5
100	102	134	134	274	125	52	342	366	420	M24	21,5
110	120	142	142	310	140	45	344	356	410	M24	26
115	130	142	142	320	150	50	372	388	450	M24	33,5
125	150	156	156	358	150	38	414	426	500	M30	43
135	160	168	168	380	160	45	444	456	530	M30	53
140	178	168	168	390	170	41	462	478	558	M30	59,5

4.4 SD interchangeable plummer block housings

d_a **150 – 220** mm



Felt seals Labyrinth seals

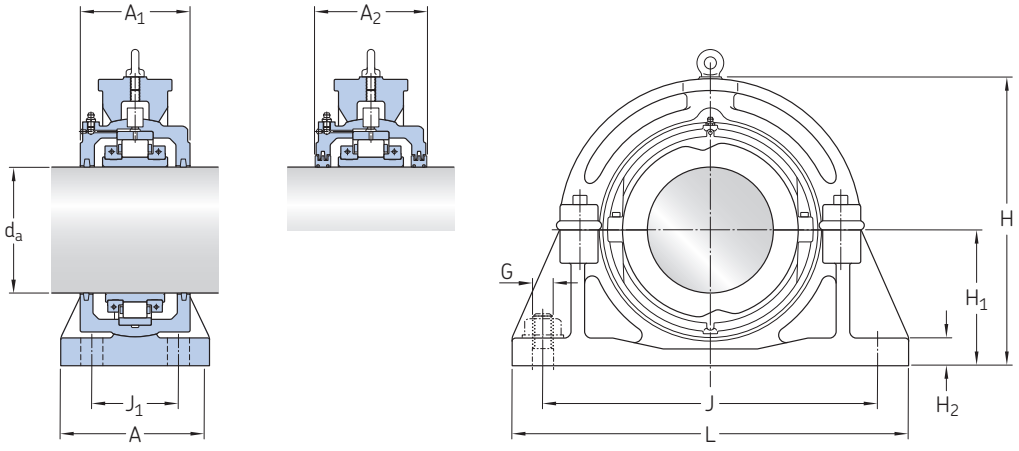
Shaft diameter	Designations[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a				
mm	–			
150	**SDC3134**	**01EB150MEX**	**01C150MEX**	**01C10EX**
	SDC3134	**01EB150MGR**	**01C150MGR**	**01C10GR**
	PN3112	**02EB160MEX10**	**02C150MEX11**	**02C31EX20**
	PN3112	**02EB150MGR11**	**02C150MGR11**	**02C31GR22**
160	**SDC3136**	**01EB160MEX**	**01C160MEX**	**01C11EX**
	SDC3136	**01EB160MGR**	**01C160MGR**	**01C11GR**
	PN3113	**02EB160MEX10**	**02C160MEX10**	**02C31EX10**
	PN3113	**02EB160MGR10**	**02C160MGR10**	**02C31GR10**
170	**SDC3138**	**01EB170MEX**	**01C170MEX**	**01C12EX**
	SDC3138	**01EB170MGR**	**01C170MGR**	**01C12GR**
	PN3210	**02EB170MEX10**	**02C170MEX10**	**02C32EX11**
	PN3210	**02EB170MGR13**	**02C170MGR10**	**02C32GR13**
180	**SDC3140**	**01EB180MEX**	**01C180MEX**	**01C12EX**
	SDC3140	**01EB180MGR**	**01C180MGR**	**01C12GR**
	PN3312	**02EB180MEX**	**02C180MEX**	**02C33EX**
	PN3312	**02EB180MGR**	**02C180MGR**	**02C33GR**
200	**SDC3144**	**01EB200MEX**	**01C200MEX**	**01C13EX**
	SDC3144	**01EB200MGR**	**01C200MGR**	**01C13GR**
	PN3410	**02EB200MEX11**	**02C200MEX10**	**02C34EX10**
	PN3410	**02EB200MGR12**	**02C200MGR13**	**02C34GR15**
220	**SDC3148**	**01EB220MEX**	**01C220MEX**	**01C14EX**
	SDC3148	**01EB220MGR**	**01C220MGR**	**01C14GR**
	PN3510	**02EB220MEX**	**02C220MEX**	**02C35EX**
	PN3510	**02EB220MGR**	**02C220MGR**	**02C35GR**

[1] The designation suffixes EX and GR refer to bearings and cartridges in the non-locating and locating positions respectively. Additional options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

Shaft diameter	Dimensions										Attachment bolts	Mass Housing
d_a	A	A_1	A_2	H	H_1	H_2	J min.	 max.	J_1	L	G	
mm	mm										–	kg
150	178	174	174	401	170	40	424	436	100	510	M24	48
	178	174	174	401	170	40	424	436	100	510	M24	48
	178	204	204	401	170	40	424	436	100	510	M24	53
	178	204	204	401	170	40	424	436	100	510	M24	53
160	190	172	192	396	180	40	438	462	110	530	M24	50
	190	172	192	396	180	40	438	462	110	530	M24	50
	190	204	204	440	180	40	438	462	110	530	M24	69
	190	204	204	440	180	40	438	462	110	530	M24	69
170	200	172	200	425	190	40	468	492	120	560	M24	59
	200	172	200	425	190	40	468	492	120	560	M24	59
	200	206	232	457	190	40	468	492	120	560	M24	83
	200	206	232	457	190	40	468	492	120	560	M24	83
180	210	172	200	445	210	40	503	517	130	600	M30	66
	210	172	200	445	210	40	503	517	130	600	M30	66
	210	222	242	482	210	40	503	517	130	600	M30	109
	210	222	242	482	210	40	503	517	130	600	M30	109
200	240	172	200	467	220	45	533	547	140	640	M30	87
	240	172	200	467	220	45	533	547	140	640	M30	87
	240	235	258	525	220	45	533	547	140	640	M30	115
	240	253	258	525	220	45	533	547	140	640	M30	115
220	250	178	216	510	240	45	593	607	150	700	M30	96
	250	178	216	510	240	45	593	607	150	700	M30	96
	250	242	274	564	240	45	593	607	150	700	M30	141
	250	242	274	564	240	45	593	607	150	700	M30	141

4.4 SD interchangeable plummer block housings

d_a **240 – 300** mm



Felt seals Labyrinth seals

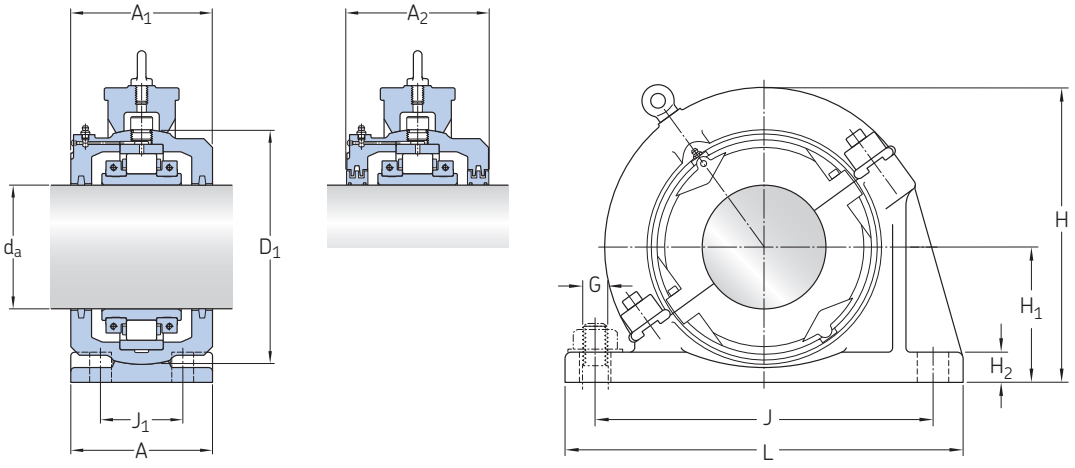
Shaft diameter	Designations[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a				
mm	–			
240	**SDC3152**	**01EB240MEX**	**01C240MEX**	**01C15EX**
	SDC3152	**01EB240MGR**	**01C240MGR**	**01C15GR**
	PN3610	**02EB240MEX**	**02C240MEX**	**02C36EX**
	PN3610	**02EB240MGR**	**02C240MGR**	**02C36GR**
260	**SDC3156**	**01EB260MEX**	**01C260MEX**	**01C16EX**
	SDC3156	**01EB260MGR**	**01C260MGR**	**01C16GR**
	PN3612	**02EB260MEX**	**02C260MEX**	**02C36EX10**
	PN3612	**02EB260MGR**	**02C260MGR**	**02C36GR11**
280	**SDC3160**	**01EB280MEX**	**01C280MEX**	**01C16EX**
	SDC3160	**01EB280MGR**	**01C280MGR**	**01C16GR**
	PN3711	**02EB280MEX**	**02C280MEX**	**02C37EX**
	PN3711	**02EB280MGR**	**02C280MEX**	**02C37EX**
300	**SDC3164**	**01EB300MEX**	**01C300MEX**	**01C17EX**
	SDC3164	**01EB300MGR**	**01C300MGR**	**01C17GR**
	PN3811	**02EB300MEX**	**02C300MEX**	**02C38EX**
	PN3811	**02EB300MGR**	**02C300MGR**	**02C38GR**

[1] The designation suffixes EX and GR refer to bearings and cartridges in the non-locating and locating positions respectively. Additional options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

Shaft diameter	Dimensions										Attachment bolts	Mass Housing
d_a	A	A_1	A_2	H	H_1	H_2	J min.	 max.	J_1	L	G	
mm	mm										–	kg
240	280	188	222	552	260	49	642	658	160	770	M36	132
	280	188	222	552	260	49	642	658	160	770	M36	132
	280	248	280	614	260	49	642	658	160	770	M36	174
	280	248	280	614	260	49	642	658	160	770	M36	174
260	280	204	232	591	280	55	662	678	160	790	M36	160
	280	204	232	591	280	55	662	678	160	790	M36	160
	280	248	300	634	280	55	662	678	160	790	M36	190
	280	248	300	634	280	55	662	678	160	790	M36	190
280	310	204	232	611	300	55	702	718	190	830	M36	175
	310	204	232	611	300	55	702	718	190	830	M36	175
	310	264	300	678	300	55	702	718	190	830	M36	247
	310	264	300	678	300	55	702	718	190	830	M36	247
300	320	216	208	663	320	60	742	758	200	880	M36	208
	320	216	208	663	320	60	742	758	200	880	M36	208
	320	268	252	714	320	60	742	758	200	880	M36	252
	320	268	252	714	320	60	742	758	200	880	M36	252

4.5 SD interchangeable angled plummer block housings

d_a **150 – 220** mm



Felt seals

Labyrinth seals

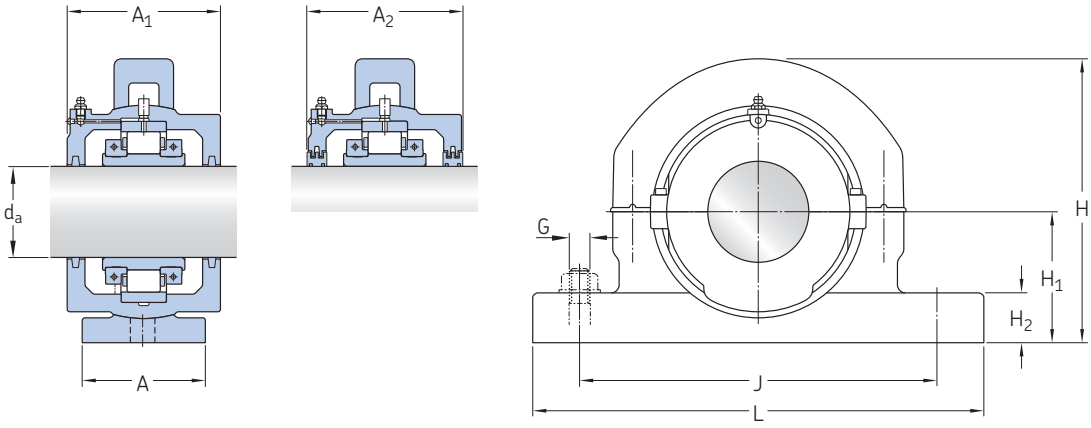
Shaft diameter[1] d_a	**Designations**[2] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
mm	–			
150	**SDQ3134**	**01EB150M**	**01C150M**	**01C10**
160	**SDQ3136**	**01EB160M**	**01C160M**	**01C11**
180	**SDQ3140**	**01EB180M**	**01C180M**	**01C12**
200	**SDQ3144**	**01EB200M**	**01C200M**	**01C13**
220	**SDQ3148**	**01EB220M**	**01C220M**	**01C14**

[1] Most common shaft sizes. Other sizes are available on request.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

Shaft diameter[1]	Dimensions										Attachment bolts	Mass Housing
d_a	A	A_1	A_2	H	H_1	H_2	J min.	J max.	J_1	L	G	
mm	mm										–	kg
150	178	174	174	399	170	38	424	436	100	510	M24	56
160	190	172	192	393	180	40	438	462	110	530	M24	57
180	210	172	200	442	210	40	503	517	130	600	M30	78
200	240	172	200	463	220	45	533	547	140	640	M30	99,5
220	250	178	216	507	240	45	593	607	150	700	M30	113

4.6 SAF interchangeable plummer block housings

d_a **1 15/16 – 5 15/16** in.

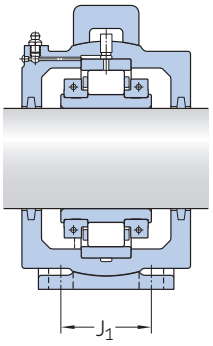


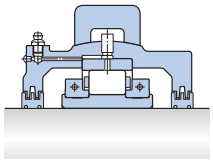
Felt seals Labyrinth seals

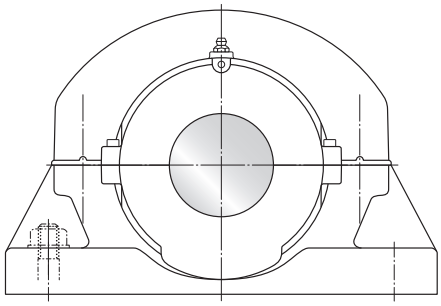
Shaft diameter d_a	Designations[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
in.	–			
1 15/16	**SAFC511**	**01EB115**	**01C115**	**01C2**
2 3/16	**SAFC513**	**01EB203**	**01C203**	**01C3**
2 7/16	**SAFC515**	**01EB207**	**01C207**	**01C3**
2 11/16	**SAFC516**	**01EB211**	**01C211**	**01C4**
2 15/16	**SAFC517** **FSAFC517**	**01EB215** **02EB215**	**01C215** **02C215**	**01C4** **02C5**
3 3/16	**SAFC518**	**01EB303**	**01C303**	**01C5**
3 7/16	**SAFC520** **FSAFC520**	**01EB307** **02EB307**	**01C307** **02C307**	**01C5** **02C6**
3 15/16	**SAFC522**	**02EB315**	**02C315**	**02C7**
4 7/16	**SAFC526**	**02EB407**	**02C407**	**02C8**
4 15/16	**SAFC528**[2]	[2]	[2]	**02C10**
5 7/16	**SAFC532**	**02EB507**	**02C507**	**02C30**
5 15/16	**SAFC534**	**02EB515**	**02C515**	**02C31**

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

[2] A special bearing and cartridge are required for this size. Load ratings are the same as for a standard 02EB415, but bearing and cartrdige outside diameters may differ. The relevant designations are 'Fixed-type bearing' 02EB415GR16,'Expansion-type bearing' 02EB415EX16, 'Fixed-type cartridge' (for TL seals) 02C10GR21 and 'Expansion-type cartridge' (for TL seals) 02C10EX21.







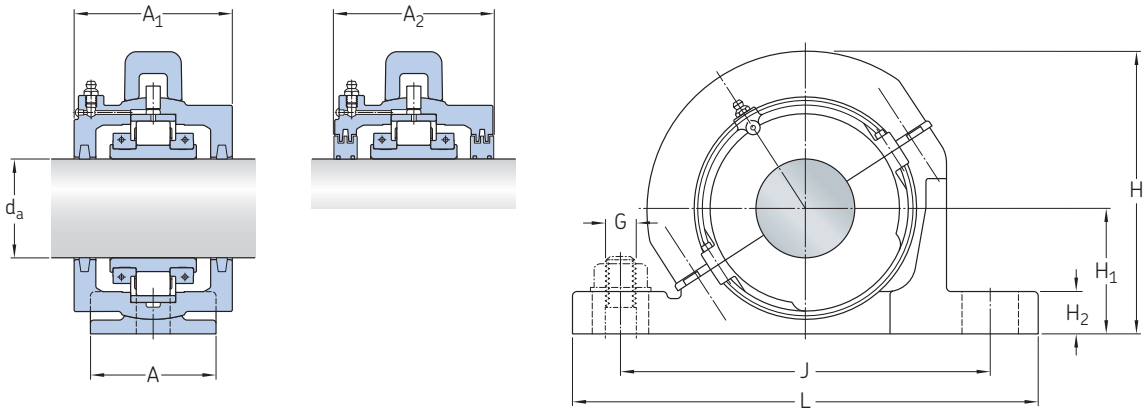
Felt seals

Labyrinth seals

Shaft diameter	Dimensions										Attachment bolts	Mass Housing
d_a	A	A_1	A_2	H	H_1	H_2	J min.	 max.	J_1	L	G	
in.	in.										–	kg
1 15/16	2 1/4	3 13/16	3 13/16	6 1/8	2 3/4	7/8	7 3/8	7 7/8	–	9 5/8	5/8 in.	4,3
2 3/16	3 1/8	4 1/16	4 1/16	7	3	1	8 1/8	9 1/2	–	11	5/8 in.	6,4
2 7/16	3 1/8	4 1/16	4 1/16	7 1/4	3 1/4	1 1/8	8 5/8	9 5/8	–	11	5/8 in.	7,4
2 11/16	3 1/2	4 1/2	4 1/2	7 7/8	3 1/2	1 3/16	9 5/8	11	–	13	3/4 in.	9,7
2 15/16	3 1/2 3 1/2	4 1/2 5 1/2	4 1/2 5 1/2	8 3/16 8 1/2	3 3/4 3 3/4	1 7/16 1 1/4	9 7/8 10	11 10 7/8	– 2 3/16	13 13	3/4 in. 5/8 in.	11,5 11,5
3 3/16	3 7/8	5 5/16	5 5/16	9 1/2	4	1 1/4	10 3/8	11 5/8	–	13 3/8	3/4 in.	15,5
3 7/16	3 7/8 4 7/8	5 5/16 6 1/16	5 5/16 6 1/16	10 10 1/4	4 1/2 4 1/2	1 3/4 1 3/4	11 5/8 11 5/8	13 1/8 13 1/8	– 2 3/8	15 1/4 15 1/4	7/8 in. 3/4 in.	19,5 15
3 15/16	4 3/4	5 3/4	5 3/4	11 5/8	4 15/16	2	12 5/8	14 1/2	2 3/4	16 1/2	3/4 in.	19,5
4 7/16	5 1/8	6 3/8	6 3/8	14 1/4	6	2 3/8	14 5/8	16	3 1/4	18 3/8	7/8 in.	43
4 15/16	5 7/8	7 1/4	7 1/4	15	6	1 3/8	16	17 1/8	3 3/8	20 1/8	1 in.	54
5 7/16	6 1/4	7 3/8	7 3/8	16 3/4	6 11/16	2 11/16	17 3/8	19 1/4	3 3/4	22	1 in.	74
5 15/16	6 3/4	8	8	17 1/4	7 1/16	2 3/4	19 3/8	21 5/8	4 1/4	24 3/4	1 in.	83

4.7 SAF interchangeable angled plummer block housings

d_a **2 3/16 – 5 15/16** in.



Felt seals Labyrinth seals

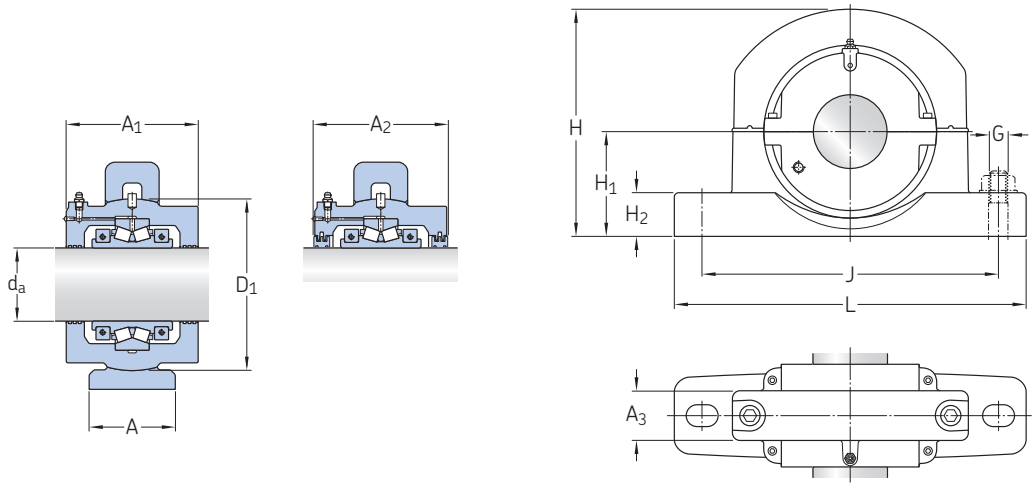
Shaft diameter[1] d_a	**Designations**[2] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
in.	–			
2 3/16	**SAFQ513**	**01EB203**	**01C203**	**01C3**
2 11/16	**SAFQ516**	**01EB211**	**01C211**	**01C4**
2 15/16	**FSAFQ517**	**02EB215**	**02C215**	**02C5**
3 7/16	**FSAFQ520**	**02EB307**	**02C307**	**02C6**
3 15/16	**SAFQ522**	**02EB315**	**02C315**	**02C7**
4 7/16	**SAFQ526**	**02EB407**	**02C407**	**02C8**
4 15/16	**SAFQ528**[3]	[3]	[3]	**02C10**[3]
5 7/16	**SAFQ532**	**02EB507**	**02C507**	**02C30**
5 15/16	**SAFQ534**	**02EB515**	**02C515**	**02C31**

[1] Most common shaft sizes. Other sizes are available on request.
[2] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**
[3] A special bearing and cartridge are required for this size. Load ratings are the same as for a standard 02EB415, but bearing and cartrdige outside diameters may differ. The relevant designations are 'Fixed-type bearing' 02EB415GR16,'Expansion-type bearing' 02EB415EX16, 'Fixed-type cartridge' (for TL seals) 02C10GR21 and 'Expansion-type cartridge' (for TL seals) 02C10EX21.

Shaft diameter[1]	Dimensions										Attachment bolts	Mass Housing
d_a	A	A_1	A_2	H	H_1	H_2	J min.	J max.	J_1	L	G	
in.	in.										in.	kg
2 3/16	3 1/8	4 1/16	4 1/16	7	3	1	8 1/8	9 1/2	–	11	5/8	5,8
2 11/16	3 1/2	4 1/2	4 1/2	7 7/8	3 1/2	1 3/16	9 5/8	11	–	13	3/4	8,3
2 15/16	3 1/2	5 1/2	5 1/2	9 5/16	3 3/4	1	10	10 7/8	2 3/16	13	5/8	11,5
3 7/16	4 3/8	6 1/16	6 1/16	10 3/8	4 1/2	1 3/4	11 5/8	13 1/8	2 3/8	15 1/4	3/4	18
3 15/16	4 3/4	5 3/4	5 3/4	11 5/8	4 15/16	1 9/16	12 5/8	14 1/2	2 3/4	16 1/2	3/4	23
4 7/16	5 1/8	6 3/8	6 3/8	12 15/16	6	2 3/8	14 7/8	16	3 1/4	18 3/8	7/8	34,5
4 15/16	5 7/8	7 1/4	7 1/4	13 7/8	6	1 3/8	16	17 1/8	3 3/8	20 1/8	1	41
5 7/16	6 1/4	7 3/8	7 3/8	15 3/4	6 11/16	2	17 3/8	19 1/4	3 3/4	22	1	51,5
5 15/16	6 3/4	8	8	17 1/8	7 1/16	2	19 3/8	21 5/8	4 1/4	24 3/4	1	77,5

4.8 Plummer block housings for split tapered roller bearings

d_a **75 – 180** mm



Grease groove seals Labyrinth seals

Shaft diameter	Designations			
	Housing	Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals
d_a				
mm	–			
75	**PN05**	**1DTB75M**	**1DTC75GR75M**	**1DTC75GR30TL**
80	**PN06**	**1DTB80M**	**1DTC80GR80M**	**1DTC80GR35TL**
90	**PN06**	**1DTB90M**	**1DTC90GR90M**	**1DTC90GR35TL**
100	**PN07**	**1DTB100M**	**1DTC100GR100M**	**1DTC100GR40TL**
110	**PN08**	**1DTB110M**	**1DTC110GR110M**	**1DTC110GR45TL**
120	**PN08**	**1DTB120M**	**1DTC120GR120M**	**1DTC120GR50TL**
130	**PN09**	**1DTB130M**	**1DTC140GR130M**	**1DTC140GR50TL**
140	**PN09**	**1DTB140M**	**1DTC140GR140M**	**1DTC140GR55TL**
150	**PN11**	**1DTB150M**	**1DTC160GR150M**	**1DTC160GR60TL**
160	**PN11**	**1DTB160M**	**1DTC160GR160M**	**1DTC160GR65TL**
180	**PN31**	**1DTB180M**	**1DTC180GR180M**	**1DTC180GR70TL**

Shaft diameter	Dimensions											Attachment bolts	Mass Housing
d_a	A	A_1	A_2	A_3	H	H_1	H_2	J min.	J max.	J_1	L	G	
mm	mm											–	kg
75	90	138	140	50	252	112	44	312	328	–	380	M24	13,5
80	102	140	142	50	272	125	52	342	366	–	420	M24	14,5
90	102	146	148	50	272	125	52	342	366	–	420	M24	14,5
100	120	170	172	64	314	143	60	374	410	–	466	M24	20,5
110	178	178	180	76	372	162	38	438	462	120	508	M24	43,5
120	178	178	180	76	372	162	38	438	462	120	508	M24	43,5
130	178	190	192	76	405	181	41	470	494	120	558	M24	52
140	178	190	192	76	405	181	41	470	494	120	558	M24	52
150	178	200	202	76	430	213	32	356	380	114	508	M24	53
160	178	200	202	76	430	213	32	356	380	114	508	M24	53
180	204	200	206	95	470	210	50	546	570	128	636	M24	83

5 Flanged housings

Flanged housings provide a simple means of mounting split roller bearings against a face or bulkhead perpendicular to the shaft.

Designs and variants

The housings are available in two designs:

- round flange (**fig. 1**)
- square flange (**fig. 2**)

They can be used for both the locating (designation suffix GR) and non-locating (designation suffix EX) bearing positions.

Alternative designs, e.g. an axially compact housing design with a flat flange (**fig. 3**), are available on request.

Housing materials

- grey cast iron (grade EN-GJL-250 in accordance with BS EN 1561), as standard for housings with a round flange except when used with split tapered roller bearings where ductile iron (see below) is used
- ductile iron (grade EN-GJS-400/18 in accordance with BS EN 1563), as standard for housings with a square flange

Alternative materials are available. Please contact SKF for more information.

Permissible misalignment

Under constant or slowly changing alignment conditions, there is a permissible misalignment up to 2,5 ° without compromising sealing capability.

Fig. 1

Housing with a round flange

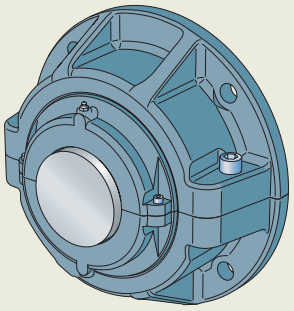


Fig. 2

Housing with a square flange

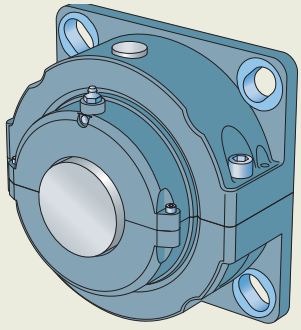
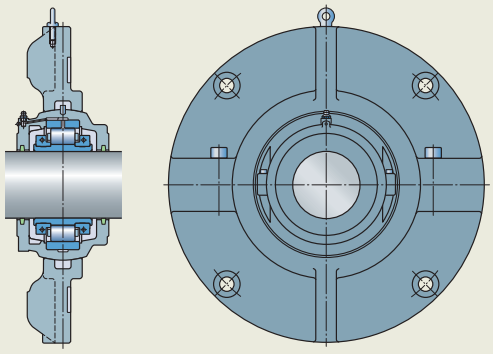


Fig. 3

Housing with a compact flange



Loads

The permissible radial load of a flanged housing is typically:

- 26% of the bearing static load rating (C_0) when using 01 or 02 series split cylindrical roller bearings
- 20% of the bearing static load rating (C_0) when using 01E, 02E, and 100 series split cylindrical roller bearings

For 03/03E series split cylindrical roller bearings, as well as split tapered roller bearings, contact SKF.

The permissible axial load of a flanged housing is typically:

- 18% of the bearing axial load rating (C_a) when using 100 series split cylindrical roller bearings
- 25% of the bearing axial load rating (C_a) when using 01 or 02 series split cylindrical roller bearings
- 13% of the bearing axial load rating (C_a) when using 01E or 02E series split cylindrical roller bearings

For 03/03E series split cylindrical roller bearings, as well as split tapered roller bearings, contact SKF.

Depending on the load direction, higher load carrying capacities may be possible with modified designs and alternative materials.

Design considerations

To maximize bearing service life and prevent deformation of the housing bore, SKF recommends the mounting surface (bulkhead or support plate) has:

- a flatness to tolerance grade IT7, in accordance with ISO 1101
- a surface roughness Ra ≤ 12,5 µm

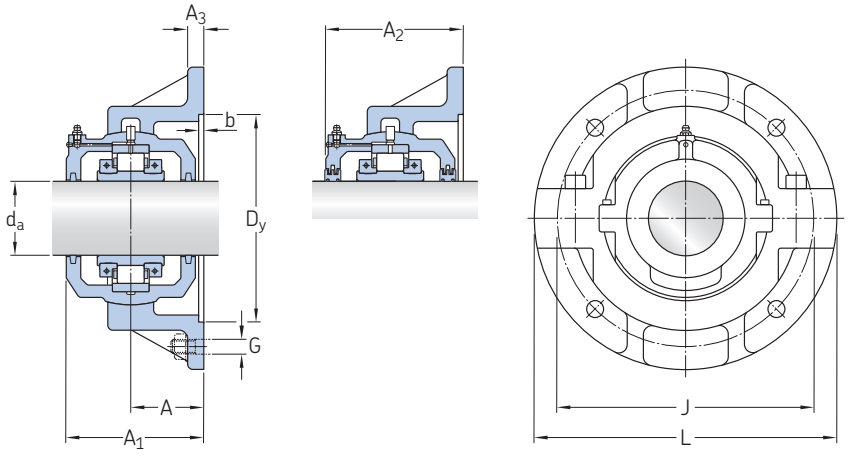
Square flanges are more appropriate for steel frames or skid mounted units.

Centring recesses

The housings are supplied with a centring recess, which can be used to centre the housing on a shoulder, guide ring, or spigot. Dimensions for the recess are provided in the product table, **page 150**. The recess is designed to suit a spigot diameter machining tolerance of f8.

5.1 Housings with a round flange for split cylindrical roller bearings

d_a **35 – 100** mm
1 3/16 – 3 3/4 *in.*



Felt seals Labyrinth seals

Shaft diameter	Designations[1]				Dimensions								Attachment bolts	Mass
	Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	A	A_1	A_2	A_3	D_y	b[2]	J	L[3]	G	Housing
d_a														
mm/*in.*	–				mm								–	kg
1 3/16	**F01**	**01EB103**	–	**01C1**	51	94	94	13	119,06	3	164	204	M12 or *1/2 in.*	4,2
1 1/4	**F01**	**01EB104**	–	**01C1**	51	94	94	13	119,06	3	164	204	M12 or *1/2 in.*	4,2
35	**F01**	**01EB35M**	–	**01C1**	51	94	94	13	119,06	3	164	204	M12 or *1/2 in.*	4,2
1 7/16	**F01**	**01EB107**	–	**01C1**	51	94	94	13	119,06	3	164	204	M12 or *1/2 in.*	4,2
1 1/2	**F01**	**01EB108**	**01C108**	**01C1**	51	94	94	13	119,06	3	164	204	M12 or *1/2 in.*	4,2
40	**F01**	**01EB40M**	**01C40M**	**01C1**	51	94	94	13	119,06	3	164	204	M12 or *1/2 in.*	4,2
1 11/16	**F02**	**01EB111**	**01C111**	**01C2**	57	106	106	13	136,53	3	180	216	M12 or *1/2 in.*	5,1
1 3/4	**F02**	**01EB112**	**01C112**	**01C2**	57	106	106	13	136,53	3	180	216	M12 or *1/2 in.*	5,1
45	**F02**	**01EB45M**	**01C45M**	**01C2**	57	106	106	13	136,53	3	180	216	M12 or *1/2 in.*	5,1
1 15/16	**F02**	**01EB115**	**01C115**	**01C2**	57	106	106	13	136,53	3	180	216	M12 or *1/2 in.*	5,1
	F03	**02EB115**	**02C115**	**02C3**	67	124	124	16	166,69	3	218	260	M12 or *1/2 in.*	9,1
50	**F02**	**01EB50M**	**01C50M**	**01C2**	57	106	106	13	136,53	3	180	216	M12 or *1/2 in.*	5,1
	F03	**02EB50M**	**02C50M**	**02C3**	67	124	124	16	166,69	3	218	260	M12 or *1/2 in.*	9,1
2	**F02**	**01EB200**	**01C200**	**01C2**	57	106	106	13	136,53	3	180	216	M12 or *1/2 in.*	5,1
	F03	**02EB200**	**02C200**	**02C3**	67	124	124	16	166,69	3	218	260	M12 or *1/2 in.*	9,1
55	**F03**	**01EB55M**	**01C55M**	**01C3**	67	119	119	16	166,69	3	218	260	M12 or *1/2 in.*	9,1
2 3/16	**F03**	**01EB203**	**01C203**	**01C3**	67	119	119	16	166,69	3	218	260	M12 or *1/2 in.*	9,1
	F04	**02EB203**	**02C203**	**02C4**	73	136	136	16	192,09	3	242	286	M12 or *1/2 in.*	12,4
2 1/4	**F03**	**01EB204**	**01C204**	**01C3**	67	119	119	16	166,69	3	218	260	M12 or *1/2 in.*	9,1
	F04	**02EB204**	**02C204**	**02C4**	73	136	136	16	192,09	3	242	286	M12 or *1/2 in.*	12,4
60	**F03**	**01EB60M**	**01C60M**	**01C3**	67	119	119	16	166,69	3	218	260	M12 or *1/2 in.*	9,1
	F04	**0E2B60M**	**02C60M**	**02C4**	73	136	136	16	192,09	3	242	286	M12 or *1/2 in.*	12,4

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**
[2] Recommended depth of locating spigot on bulkhead. (The housing recess is deeper than the dimension provided.)
[3] As-cast dimension. Depending upon the manufacturing method used, the flange supplied may be machined 5 mm smaller than the dimension provided.

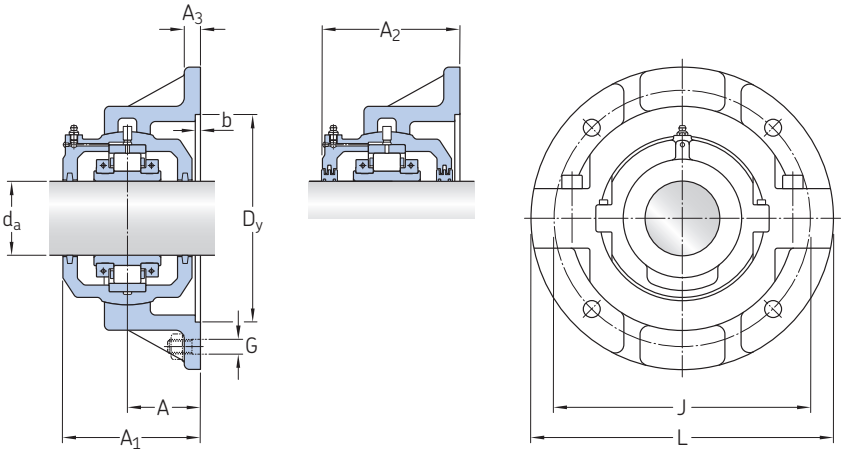
Shaft diameter	Designations[1]				Dimensions								Attachment bolts	Mass
	Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	A	A_1	A_2	A_3	D_y	b[2]	J	L[3]	G	Housing
d_a														
mm/*in.*	–				mm								–	kg
2 7/16	**F03**	**01EB207**	**01C207**	**01C3**	67	119	119	16	166,69	3	218	260	M12 or *1/2 in.*	9,1
	F04	**02EB207**	**02C207**	**02C4**	73	136	136	16	192,09	3	242	286	M12 or *1/2 in.*	12,4
2 1/2	**F03**	**01EB208**	**01C208**	**01C3**	67	119	119	16	166,69	3	218	260	M12 or *1/2 in.*	9,1
	F04	**02EB208**	**02C208**	**02C4**	73	136	136	16	192,09	3	242	286	M12 or *1/2 in.*	12,4
65	**F03**	**01EB65M**	**01C65M**	**01C3**	67	119	119	16	166,69	3	218	260	M12 or *1/2 in.*	9,1
	F04	**02EB65M**	**02C65M**	**02C4**	73	136	136	16	192,09	3	242	286	M12 or *1/2 in.*	12,4
2 11/16	**F04**	**01EB211**	**01C211**	**01C4**	73	130	130	16	192,09	3	242	286	M12 or *1/2 in.*	12,4
	F05	**02EB211**	**02C211**	**02C5**	79	149	149	19	215,9	3	274	330	M16 or *5/8 in.*	19,5
2 3/4	**F03**	**100B212**	**100C212**	**100C3**	67	119	119	16	166,69	3	218	260	M12 or *1/2 in.*	9,1
	F04	**01EB212**	**01C212**	**01C4**	73	130	130	16	192,09	3	242	286	M12 or *1/2 in.*	12,4
	F05	**02EB212**	**02C212**	**02C5**	79	149	149	19	215,9	3	274	330	M16 or *5/8 in.*	19,5
70	**F03**	**100B70M**	**100C70M**	**100C3**	67	119	119	16	166,69	3	218	260	M12 or *1/2 in.*	9,1
	F04	**01EB70M**	**01C70M**	**01C4**	73	130	130	16	192,09	3	242	286	M12 or *1/2 in.*	12,4
	F05	**02EB70M**	**02C70M**	**02C5**	79	149	149	19	215,9	3	274	330	M16 or *5/8 in.*	19,5
2 15/16	**F03**	**100B215**	**100C215**	**100C3**	67	119	119	16	166,69	3	218	260	M12 or *1/2 in.*	9,1
	F04	**01EB215**	**01C215**	**01C4**	73	130	130	16	192,09	3	242	286	M12 or *1/2 in.*	12,4
	F05	**02EB215**	**02C215**	**02C5**	79	149	149	19	215,9	3	274	330	M16 or *5/8 in.*	19,5
75	**F03**	**100B75M**	**100C75M**	**100C3**	67	119	119	16	166,69	3	218	260	M12 or *1/2 in.*	9,1
	F04	**01EB75M**	**01C75M**	**01C4**	73	130	130	16	192,09	3	242	286	M12 or *1/2 in.*	12,4
	F05	**02EB75M**	**02C75M**	**02C5**	79	149	149	19	215,9	3	274	330	M16 or *5/8 in.*	19,5
3	**F03**	**100B300**	**100C300**	**100C3**	67	119	119	16	166,69	3	218	260	M12 or *1/2 in.*	9,1
	F04	**01EB300**	**01C300**	**01C4**	73	130	130	16	192,09	3	242	286	M12 or *1/2 in.*	12,4
	F05	**02EB300**	**02C300**	**02C5**	79	149	149	19	215,9	3	274	330	M16 or *5/8 in.*	19,5
80	**F05**	**01EB80M**	**01C80M**	**01C5**	79	147	147	19	215,9	3	274	330	M16 or *5/8 in.*	19,5
	F06	**02EB80M**	**02C80M**	**02C6**	86	163	163	19	244,48	3	302	356	M16 or *5/8 in.*	22
3 3/16	**F05**	**01EB303**	**01C303**	**01C5**	79	147	147	19	215,9	3	274	330	M16 or *5/8 in.*	19,5
	F06	**02EB303**	**02C303**	**02C6**	86	163	163	19	244,48	3	302	356	M16 or *5/8 in.*	22
3 1/4	**F05**	**01EB304**	**01C304**	**01C5**	79	147	147	19	215,9	3	274	330	M16 or *5/8 in.*	19,5
	F06	**02EB304**	**02C304**	**02C6**	86	163	163	19	244,48	3	302	356	M16 or *5/8 in.*	22
85	**F04**	**100B85M**	**100C85M**	**100C4**	73	130	130	16	192,09	3	242	286	M12 or *1/2 in.*	12,5
	F05	**01EB85M**	**01C85M**	**01C5**	79	147	147	19	215,9	3	274	330	M16 or *5/8 in.*	19,5
	F06	**02EB85M**	**02C85M**	**02C6**	86	163	163	19	244,48	3	302	356	M16 or *5/8 in.*	22
3 7/16	**F04**	**100B307**	**100C307**	**100C4**	73	130	130	16	192,09	3	242	286	M12 or *1/2 in.*	12,5
	F05	**01EB307**	**01EC307**	**01C5**	79	147	147	19	215,9	3	274	330	M16 or *5/8 in.*	19,5
	F06	**02EB307**	**02C307**	**02C6**	86	163	163	19	244,48	3	302	356	M16 or *5/8 in.*	22
3 1/2	**F05**	**01EB308**	**01EC308**	**01C5**	79	147	147	19	215,9	3	274	330	M16 or *5/8 in.*	19,5
	F06	**02EB308**	**02C308**	**02C6**	86	163	163	19	244,48	3	302	356	M16 or *5/8 in.*	22
90	**F05**	**01EB90M**	**01EC90M**	**01C5**	79	147	147	19	215,9	3	274	330	M16 or *5/8 in.*	19,5
	F06	**02EB90M**	**02C90M**	**02C6**	86	163	163	19	244,48	3	302	356	M16 or *5/8 in.*	22
3 11/16	**F06**	**01EB311**	**01EC311**	**01C6**	86	153	153	19	244,48	3	302	356	M16 or *5/8 in.*	22
	F07	**02EB311**	**02C311**	**02C7**	92	165	165	22	276,23	3	334	382	M16 or *5/8 in.*	26,5
95	**F06**	**01EB95M**	**01EC95M**	**01C6**	86	153	153	19	244,48	3	302	356	M16 or *5/8 in.*	22
3 3/4	**F06**	**01EB312**	**01EC312**	**01C6**	86	153	153	19	244,48	3	302	356	M16 or *5/8 in.*	22
	F07	**02EB312**	**02C312**	**02C7**	92	165	165	22	276,23	3	334	382	M16 or *5/8 in.*	26,5
100	**F05**	**100B100M**	**100C100M**	**100C5**	79	147	147	19	215,9	3	274	330	M16 or *5/8 in.*	19,5
	F06	**01EB100M**	**01EC100M**	**01C6**	86	153	153	19	244,48	3	302	356	M16 or *5/8 in.*	22
	F07	**02EB100M**	**02C100M**	**02C7**	92	165	165	22	276,23	3	334	382	M16 or *5/8 in.*	26,5

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**
[2] Recommended depth of locating spigot on bulkhead. (The housing recess is deeper than the dimension provided.)
[3] As-cast dimension. Depending upon the manufacturing method used, the flange supplied may be machined 5 mm smaller than the dimension provided.

5.1 Housings with a round flange for split cylindrical roller bearings

d_a **105 – 170** mm

3 15/16 – 6 1/2 *in.*



Felt seals Labyrinth seals

Shaft diameter	Designations[1]		Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions								Attachment bolts	Mass
	Housing	Bearing			A	A_1	A_2	A_3	D_y	b[2]	J	L[3]	G	Housing
d_a														
mm/*in.*	–				mm								–	kg
3 15/16	**F05**	**100B315**	**100C315**	**100C5**	79	147	147	19	215,9	3	274	330	M16 or *5/8 in.*	19,5
	F06	**01EB315**	**01C315**	**01C6**	86	153	153	19	244,48	3	302	356	M16 or *5/8 in.*	22
	F07	**02EB315**	**02C315**	**02C7**	92	165	165	22	276,23	3	334	382	M16 or *5/8 in.*	26,5
4	**F05**	**100B400**	**100C400**	**100C5**	79	147	147	19	215,9	3	274	330	M16 or *5/8 in.*	19,5
	F06	**01EB400**	**01C400**	**01C6**	86	153	153	19	244,48	3	302	356	M16 or *5/8 in.*	22
	F07	**02EB400**	**02C400**	**02C7**	92	165	165	22	276,23	3	334	382	M16 or *5/8 in.*	26,5
105	**F06**	**01EB105M**	**01C105M**	**01C6**	86	153	153	19	244,48	3	302	356	M16 or *5/8 in.*	22
	F07	**02EB105M**	**02C105M**	**02C7**	92	165	165	22	276,23	3	334	382	M16 or *5/8 in.*	26,5
4 3/16	**F07**	**01EB403**	**01C403**	**01C7**	92	163	163	22	276,23	3	334	382	M16 or *5/8 in.*	26,5
	F08	**02EB403**	**02C403**	**02C8**	98	179	179	22	314,33	3	374	432	M24 or *1 in.*	35
110	**F06**	**100B110M**	**100C110M**	**100C6**	86	153	153	19	244,48	3	302	356	M16 or *5/8 in.*	22
	F07	**01EB110M**	**01C110M**	**01C7**	92	163	163	22	276,23	3	334	382	M16 or *5/8 in.*	26,5
	F08	**02EB110M**	**02C110M**	**02C8**	98	179	179	22	314,33	3	374	432	M24 or *1 in.*	35
4 7/16	**F06**	**100B407**	**100C407**	**100C6**	86	153	153	19	244,48	3	302	356	M16 or *5/8 in.*	22
	F07	**01EB407**	**01C407**	**01C7**	92	163	163	22	276,23	3	334	382	M16 or *5/8 in.*	26,5
	F08	**02EB407**	**02C407**	**02C8**	98	179	179	22	314,33	3	374	432	M24 or *1 in.*	35
4 1/2	**F06**	**100B408**	**100C408**	**100C6**	86	153	153	19	244,48	3	302	356	M16 or *5/8 in.*	22
	F07	**01EB408**	**01C408**	**01C7**	92	163	163	22	276,23	3	334	382	M16 or *5/8 in.*	26,5
	F08	**02EB408**	**02C408**	**02C8**	98	179	179	22	314,33	3	374	432	M24 or *1 in.*	35
115	**F06**	**100B115M**	**100C115M**	**100C6**	86	153	153	19	244,48	3	302	356	M16 or *5/8 in.*	22
	F07	**01EB115M**	**01C115M**	**01C7**	92	163	163	22	276,23	3	334	382	M16 or *5/8 in.*	26,5
	F08	**02EB115M**	**02C115M**	**02C8**	98	179	179	22	314,33	3	374	432	M24 or *1 in.*	35
120	**F07**	**100B120M**	**100C120M**	**100C7**	92	163	163	22	276,23	3	334	382	M16 or *5/8 in.*	26,5
	F08	**01EB120M**	**01C120M**	**01C8**	98	176	176	22	314,33	3	374	432	M24 or *1 in.*	35
	F10	**02EB120M**	**02C120M**	**02C10**	114	206	206	25	346,07	3	412	470	M24 or *1 in.*	50
125	**F07**	**100B125M**	**100C125M**	**100C7**	92	163	163	22	276,23	3	334	382	M16 or *5/8 in.*	26,5
	F08	**01EB125M**	**01C125M**	**01C8**	98	176	176	22	314,33	3	374	432	M24 or *1 in.*	35
	F10	**02EB125M**	**02C125M**	**02C10**	114	206	206	25	346,07	3	412	470	M24 or *1 in.*	50

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

[2] Recommended depth of locating spigot on bulkhead. (The housing recess is deeper than the dimension provided.)

[3] As-cast dimension. Depending upon the manufacturing method used, the flange supplied may be machined 5 mm smaller than the dimension provided.

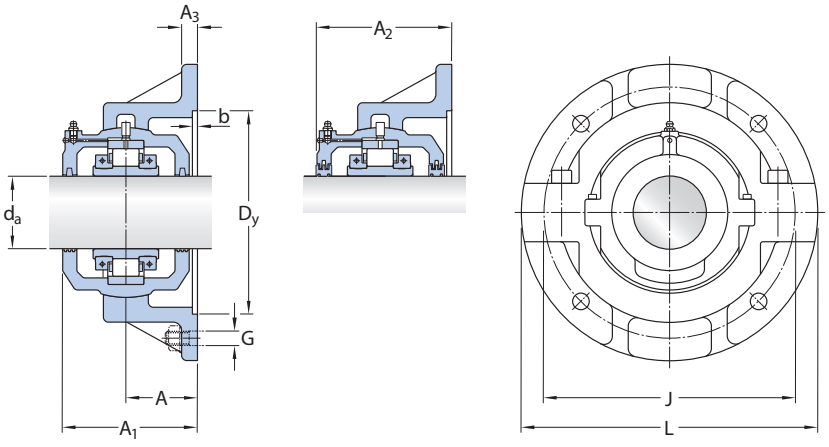
Shaft diameter	Designations[1]				Dimensions								Attachment bolts	Mass
	Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	A	A_1	A_2	A_3	D_y	b[2]	J	L[3]	G	Housing
d_a														
mm/*in.*	–				mm								–	kg
4 15/16	**F07**	**100B415**	**100C415**	**100C7**	92	163	163	22	276,23	3	334	382	M16 or *5/8 in.*	26,5
	F08	**01EB415**	**01C415**	**01C8**	98	176	176	22	314,33	3	374	432	M24 or *1 in.*	35
	F10	**02EB415**	**02C415**	**02C10**	114	206	206	25	346,07	3	412	470	M24 or *1 in.*	50
5	**F07**	**100B500**	**100C500**	**100C7**	92	163	163	22	276,23	3	334	382	M16 or *5/8 in.*	26,5
	F08	**01EB500**	**01C500**	**01C8**	98	176	176	22	314,33	3	374	432	M24 or *1 in.*	35
	F10	**02EB500**	**02C500**	**02C10**	114	206	206	25	346,07	3	412	470	M24 or *1 in.*	50
130	**F07**	**100B130M**	**100C130M**	**100C7**	92	163	163	22	276,23	3	334	382	M16 or *5/8 in.*	26,5
	F08	**01EB130M**	**01C130M**	**01C8**	98	176	176	22	314,33	3	374	432	M24 or *1 in.*	35
	F10	**02EB130M**	**02C130M**	**02C10**	114	206	206	25	346,07	3	412	470	M24 or *1 in.*	50
5 3/16	**F09**	**01EB503**	**01C503**	**01C9**	98	182	182	25	317,5	3	384	444	M24 or *1 in.*	41
	F30	**02EB503**	**02C503**	**02C30**	114	208	208	25	377,82	3	444	508	M24 or *1 in.*	67
135	**F09**	**01EB135M**	**01C135M**	**01C9**	98	182	182	25	317,5	3	384	444	M24 or *1 in.*	41
5 7/16	**F08**	**100B507**	**100C507**	**100C8**	98	176	176	22	314,33	3	374	432	M24 or *1 in.*	35
	F09	**01EB507**	**01C507**	**01C9**	98	182	182	25	317,5	3	384	444	M24 or *1 in.*	41
	F30	**02EB507**	**02C507**	**02C30**	114	208	208	25	377,82	3	444	508	M24 or *1 in.*	67
5 1/2	**F08**	**100B508**	**100C508**	**100C8**	98	176	176	22	314,33	3	374	432	M24 or *1 in.*	35
	F09	**01EB508**	**01C508**	**01C9**	98	182	182	25	317,5	3	384	444	M24 or *1 in.*	41
	F30	**02EB508**	**02C508**	**02C30**	114	208	208	25	377,82	3	444	508	M24 or *1 in.*	67
140	**F08**	**100B140M**	**100C140M**	**100C8**	98	176	176	22	314,33	3	374	432	M24 or *1 in.*	35
	F09	**01EB140M**	**01C140M**	**01C9**	98	182	182	25	317,5	3	384	444	M24 or *1 in.*	41
	F30	**02EB140M**	**02C140M**	**02C30**	114	208	208	25	377,82	3	444	508	M24 or *1 in.*	67
145	**F30**	**02EB145M**	**02C145M**	**02C30**	114	208	208	25	377,82	3	444	508	M24 or *1 in.*	67
150	**F09**	**100B150M**	**100C150M**	**100C9**	98	182	182	25	317,5	3	384	444	M24 or *1 in.*	41
	F10	**01EB150M**	**01C150M**	**01C10**	114	201	201	25	346,07	3	412	470	M24 or *1 in.*	50
	F31	**02EB150M**	**02C150M**	**02C31**	124	226	226	25	393,7	3	466	534	M24 or *1 in.*	81
5 15/16	**F09**	**100B515**	**100C515**	**100C9**	98	182	182	25	317,5	3	384	444	M24 or *1 in.*	41
	F10	**01EB515**	**01C515**	**01C10**	114	201	201	25	346,07	3	412	470	M24 or *1 in.*	50
	F31	**02EB515**	**02C515**	**02C31**	124	226	226	25	393,7	3	466	534	M24 or *1 in.*	81
6	**F09**	**100B600**	**100C600**	**100C9**	98	182	182	25	317,5	3	384	444	M24 or *1 in.*	41
	F10	**01EB600**	**01C600**	**01C10**	114	201	201	25	346,07	3	412	470	M24 or *1 in.*	50
	F31	**02EB600**	**02C600**	**02C31**	124	226	226	25	393,7	3	466	534	M24 or *1 in.*	81
155	**F10**	**01EB155M**	**01C155M**	**01C10**	114	201	201	25	346,07	3	412	470	M24 or *1 in.*	50
	F31	**02EB155M**	**02C155M**	**02C31**	124	226	226	25	393,7	3	466	534	M24 or *1 in.*	81
160	**F10**	**01EB160MEX10**[4]	**01C160MEX14**[4]	**01C10EX10**[4]	114	201	201	25	346,07	3	412	470	M24 or *1 in.*	50
	F10	**01EB160MGR10**[4]	**01C160MGR10**[4]	**01C10GR10**[4]	114	201	201	25	346,07	3	412	470	M24 or *1 in.*	50
	F31	**02EB160MEX10**[4]	**02C160MEX10**[4]	**02C31EX10**[4]	124	226	226	25	393,7	3	466	534	M24 or *1 in.*	81
	F31	**02EB160MGR10**[4]	**02C160MGR10**[4]	**02C31GR10**[4]	124	226	226	25	393,7	3	466	534	M24 or *1 in.*	81
	F11	**01EB160M**	**01C160M**	**01C11**	105	191	201	25	352,43	3	426	496	M24 or *1 in.*	58
	F32	**02EB160M**	**02C160M**	**02C32**	124	227	240	29	428,63	5	508	584	M30 or *1 1/4 in.*	95
6 7/16	**F11**	**01EB607**	**01C607**	**01C11**	105	191	201	25	352,43	3	426	496	M24 or *1 in.*	58
	F32	**02EB607**	**02C607**	**02C32**	124	227	240	29	428,63	5	508	584	M30 or *1 1/4 in.*	95
6 1/2	**F11**	**01EB608**	**01C608**	**01C11**	105	191	201	25	352,43	3	426	496	M24 or *1 in.*	58
	F32	**02EB608**	**02C608**	**02C32**	124	227	240	29	428,63	5	508	584	M30 or *1 1/4 in.*	95
170	**F11**	**01EB170MEX13**[4]	**01C170MEX13**[4]	**01C11EX10**[4]	105	191	201	25	352,43	3	426	496	M24 or *1 in.*	58
	F11	**01EB170MGR14**[4]	**01C170MGR15**[4]	**01C11GR10**[4]	105	191	201	25	352,43	3	426	496	M24 or *1 in.*	58
	F12	**01EB170M**	**01C170M**	**01C12**	108	194	208	29	365,13	3	438	508	M24 or *1 in.*	62
	F32	**02EB170M**	**02C170M**	**02C32EX10**[4]	124	227	240	29	428,63	5	508	584	M30 or *1 1/4 in.*	95
	F32	**02EB170M**	**02C170M**	**02C32GR10**[4]	124	227	240	29	428,63	5	508	584	M30 or *1 1/4 in.*	95

1) Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**
2) Recommended depth of locating spigot on bulkhead. (The housing recess is deeper than the dimension provided.)
3) As-cast dimension. Depending upon the manufacturing method used, the flange supplied may be machined 5 mm smaller than the dimension provided.
4) Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

5.1 Housings with a round flange for split cylindrical roller bearings

d_a **175 – 400** mm

6 15/16 – 16 *in.*



Felt / Grease groove seals Labyrinth seals

Shaft diameter	Designations[1]				Dimensions								Attachment bolts	Mass
	Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	A	A_1	A_2	A_3	D_y	b[2]	J	L[3]	G	Housing
d_a														
mm/*in.*	–				mm								–	kg
175	**F12**	**01EB175M**	**01C175M**	**01C12**	108	194	208	29	365,13	3	438	508	M24 or *1 in.*	62
	F33	**02EB175M**	**02C175M**	**02C33**	130	241	251	32	444,5	5	524	596	M30 or *1 1/4 in.*	100
6 15/16	**F12**	**01EB615**	**01C615**	**01C12**	108	194	208	29	365,13	3	438	508	M24 or *1 in.*	62
	F33	**02EB615**	**02C615**	**02C33**	130	241	251	32	444,5	5	524	596	M30 or *1 1/4 in.*	100
7	**F12**	**01EB700**	**01C700**	**01C12**	108	194	208	29	365,13	3	438	508	M24 or *1 in.*	62
	F33	**02EB700**	**02C700**	**02C33**	130	241	251	32	444,5	5	524	596	M30 or *1 1/4 in.*	100
180	**F12**	**01EB180M**	**01C180M**	**01C12**	108	194	208	29	365,13	3	438	508	M24 or *1 in.*	62
	F33	**02EB180M**	**02C180M**	**02C33**	130	241	251	32	444,5	5	524	596	M30 or *1 1/4 in.*	100
190	**F13**	**01EB190M**	**01C190M**	**01C13**	108	194	208	32	400,05	3	474	534	M24 or *1 in.*	71
	F34	**02EB190M**	**02C190M**	**02C34**	137	254,5	266	32	492,13	5	572	648	M30 or *1 1/4 in.*	138
200	**F12**	**100B200M**	**100C200M**	[4]	108	194	[4]	29	365,13	3	438	508	M24 or *1 in.*	62
	F13	**01EB200M**	**01C200M**	**01C13**	108	194	208	32	400,05	3	474	534	M24 or *1 in.*	71
	F34	**02EB200M**	**02C200M**	**02C34**	137	254,5	266	32	492,13	5	572	648	M30 or *1 1/4 in.*	138
7 15/16	**F12**	**100B715**	**100C715**	[4]	108	194	[4]	29	365,13	3	438	508	M24 or *1 in.*	62
	F13	**01EB715**	**01C715**	**01C13**	108	194	208	32	400,05	3	474	534	M24 or *1 in.*	71
	F34	**02EB715**	**02C715**	**02C34**	137	254,5	266	32	492,13	5	572	648	M30 or *1 1/4 in.*	138
8	**F12**	**100B800**	**100C800**	[4]	108	194	[4]	29	365,13	3	438	508	M24 or *1 in.*	62
	F13	**01EB800**	**01C800**	**01C13**	108	194	208	32	400,05	3	474	534	M24 or *1 in.*	71
	F34	**02EB800**	**02C800**	**02C34**	137	254,5	266	32	492,13	5	572	648	M30 or *1 1/4 in.*	138
220	**F13**	**100B220M**	**100C220M**	[4]	108	194	[4]	32	400,05	3	474	534	M24 or *1 in.*	71
	F14	**01EB220M**	**01C220M**	**01C14**	117	206	225	35	431,8	3	512	584	M30 or *1 1/4 in.*	85
	F35	**02EB220M**	**02C220M**	**02C35**	146	267	283	35	527,05	5	620	712	M36 or *1 1/2 in.*	145
9	**F14**	**01EB900**	**01C900**	**01C14**	117	206	225	35	431,8	3	512	584	M30 or *1 1/4 in.*	85
	F35	**02EB900**	**02C900**	**02C35**	146	267	283	35	527,05	5	620	712	M36 or *1 1/2 in.*	145
230	**F14**	**01EB230M**	**01C230M**	**01C14**	117	206	225	35	431,8	3	512	584	M30 or *1 1/4 in.*	85
	F35	**02EB230M**	**02C230M**	**02C35**	146	267	283	35	527,05	5	620	712	M36 or *1 1/2 in.*	145

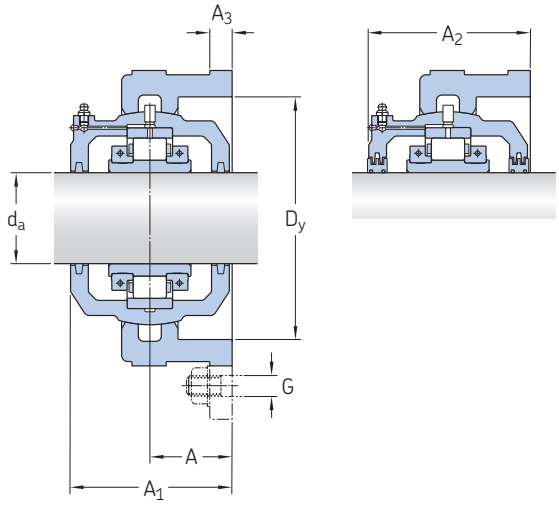
[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**
[2] Recommended depth of locating spigot on bulkhead. (The housing recess is deeper than the dimension provided.)
[3] As-cast dimension. Depending upon the manufacturing method used, the flange supplied may be machined 5 mm smaller than the dimension provided.
[4] Contact SKF.

Shaft diameter	Designations[1]				Dimensions								Attachment bolts	Mass
	Housing	Bearing	Cartridge with felt / grease groove seals	Cartridge for labyrinth seals	A	A_1	A_2	A_3	D_y	b[2]	J	L[3]	G	Housing
d_a														
mm/*in.*	–				mm								–	kg
240	**F15**	**01EB240M**	**01C240M**	**01C15**	117	211	228	35	463,55	3	542	610	M30 or *1 1/4 in.*	100
	F36	**02EB240M**	**02C240M**	**02C36**	149	273	289	38	568,33	5	660	736	M36 or *1 1/2 in.*	178
250	**F15**	**01EB250M**	**01C250M**	**01C15**	117	211	228	35	463,55	3	542	610	M30 or *1 1/4 in.*	100
	F36	**02EB250M**	**02C250M**	**02C36**	149	273	289	38	568,33	5	660	736	M36 or *1 1/2 in.*	178
10	**F15**	**01EB1000**	**01C1000**	**01C15**	117	211	228	35	463,55	3	542	610	M30 or *1 1/4 in.*	100
	F36	**02EB1000**	**02C1000**	**02C36**	149	273	289	38	568,33	5	660	736	M36 or *1 1/2 in.*	178
260	**F15**	**01EB260MEX16**[5]	**01C260MEX15**[5]	**01C15EX15**[5]	117	211	228	35	463,55	3	542	610	M30 or *1 1/4 in.*	100
	F15	**01EB260MGR15**[5]	**01C260MGR12**[5]	**01C15GR13**[5]	117	211	228	35	463,55	3	542	610	M30 or *1 1/4 in.*	100
	F16	**01EB260M**	**01C260M**	**01C16**	124	226	240	38	504,83	3	584	660	M30 or *1 1/4 in.*	116
	F36	**02EB260M**	**02C260M**	**02C36EX10**[5]	149	273	289	38	568,33	5	660	736	M36 or *1 1/2 in.*	178
	F36	**02EB260M**	**02C260M**	**02C36GR11**[5]	149	273	289	38	568,33	5	660	736	M36 or *1 1/2 in.*	178
270	**F16**	**01EB270M**	**01C270M**	**01C16**	124	226	240	38	504,83	3	584	660	M30 or *1 1/4 in.*	116
275	**F16**	**01EB275M**	**01C275M**	**01C16**	124	226	240	38	504,83	3	584	660	M30 or *1 1/4 in.*	116
11	**F16**	**01EB1100**	**01C1100**	**01C16**	124	226	240	38	504,83	3	584	660	M30 or *1 1/4 in.*	116
	F37	**02EB1100**	**02C1100**	**02C37**	159	291	309	38	603,25	5	682	762	M30 or *1 1/4 in.*[4]	195
280	**F16**	**01EB280M**	**01C280M**	**01C16**	124	226	240	38	504,83	3	584	660	M30 or *1 1/4 in.*	116
	F37	**02EB280M**	**02C280M**	**02C37**	159	291	309	38	603,25	5	682	762	M30 or *1 1/4 in.*[4]	195
290	**F17**	**01EB290M**	**01C290M**	**01C17**	133	241	257	38	539,75	3	626	712	M30 or *1 1/4 in.*	119
300	**F17**	**01EB300M**	**01C300M**	**01C17**	133	241	257	38	539,75	3	626	712	M30 or *1 1/4 in.*	119
	F38	**02EB300M**	**02C300M**	**02C38**	162	296	315	41	628,65	5	708	788	M30 or *1 1/4 in.*[4]	195
12	**F17**	**01EB1200**	**01C1200**	**01C17**	133	241	257	38	539,75	3	626	712	M30 or *1 1/4 in.*	119
	F38	**02EB1200**	**02C1200**	**02C38**	162	296	315	41	628,65	5	708	788	M30 or *1 1/4 in.*[4]	195
320	**F18**	**01B320M**	**01C320M**	**01C18**	152	282	288	38	584,2	5	698	812	M36 or *1 1/2 in.*	184
	F39	**02B320M**	**02C320M**	**02C39**	190	339	355	45	680	7	800	914	M30 or *1 1/4 in.*[4]	309
330	**F18**	**01B330M**	**01C330M**	**01C18**	152	282	288	38	584,2	5	698	812	M36 or *1 1/2 in.*	184
	F39	**02B330M**	**02C330M**	**02C39**	190	339	355	45	680	7	800	914	M30 or *1 1/4 in.*[4]	309
13	**F18**	**01B1300**	**01C1300**	**01C18**	152	282	288	38	584,2	5	698	812	M36 or *1 1/2 in.*	184
	F39	**02B1300**	**02C1300**	**02C39**	190	339	355	45	680	7	800	914	M30 or *1 1/4 in.*[4]	309
340	**F18**	**01B340MEX13**[5]	**01C340MEX12**[5]	**01C18EX**[5]	152	282	288	38	584,2	5	698	812	M36 or *1 1/2 in.*	184
	F18	**01B340MGR13**[5]	**01C340MGR11**[5]	**01C18GR**[5]	152	282	288	38	584,2	5	698	812	M36 or *1 1/2 in.*	184
	F19	**01B340M**	**01C340M**	**01C19**	140	270	276	40	610	7	738	850	M36 or *1 1/2 in.*	207
350	**F19**	**01B350M**	**01C350M**	**01C19**	140	270	276	40	610	7	738	850	M36 or *1 1/2 in.*	207
14	**F19**	**01B1400**	**01C1400**	**01C19**	140	270	276	40	610	7	738	850	M36 or *1 1/2 in.*	207
360	**F19**	**01B360MEX15**[5]	**01C360MGR13**[5]	**01C19EX**[5]	140	270	276	40	610	7	738	850	M36 or *1 1/2 in.*	207
	F19	**01B360MGR15**[5]	**01C360MGR16**	**01C19GR**[5]	140	270	276	40	610	7	738	850	M36 or *1 1/2 in.*	207
	F20	**01B360M**	**01C360M**	**01C20**	165	295	305	44	673,1	5	800	914	M30 or *1 1/4 in.*[4]	276
380	**F20**	**01B380M**	**01C380M**	**01C20**	165	295	305	44	673,1	5	800	914	M30 or *1 1/4 in.*[4]	276
15	**F20**	**01B1500**	**01C1500**	**01C20**	165	295	305	44	673,1	5	800	914	M30 or *1 1/4 in.*[4]	276
390	**F21**	**01B390M**	**01C390M**	**01C21**	165	305	308	44	673,1	5	800	914	M30 or *1 1/4 in.*[4]	273
400	**F21**	**01B400M**	**01C400M**	**01C21**	165	305	308	44	673,1	5	800	914	M30 or *1 1/4 in.*[4]	273
16	**F21**	**01B1600**	**01C1600**	**01C21**	165	305	308	44	673,1	5	800	914	M30 or *1 1/4 in.*[4]	273

1) Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**
2) Recommended depth of locating spigot on bulkhead. (The housing recess is deeper than the dimension provided.)
3) As-cast dimension. Depending upon the manufacturing method used, the flange supplied may be machined 5 mm smaller than the dimension provided.
4) Eight bolts required.
5) Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

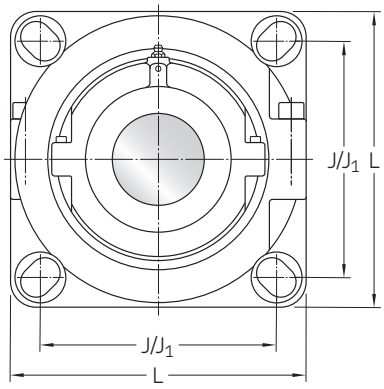
5.2 Housings with a square flange for split cylindrical roller bearings

d_a **45 – 100** mm
1 11/16 – 3 15/16 *in.*



Felt seals

Labyrinth seals



J for socket head cap screws, J_1 for hexagonal head bolts

Shaft diameter	Designations[1]				Dimensions									Attachment bolts	Mass
	Housing	Bearing	Cartridge with felt seals	Cartridge for laby-rinth seals	A	A_1	A_2	A_3	D_y	J min.	J max.	J_1	L	G	Housing
d_a															
mm/*in.*	–				mm									–	kg
1 11/16	**DF02**	**01EB111**	**01C111**	**01C2**	52	101	101	13	120	114	118	118	165	M12 or *1/2 in.*	4
1 3/4	**DF02**	**01EB112**	**01C112**	**01C2**	52	101	101	13	120	114	118	118	165	M12 or *1/2 in.*	4
45	**DF02**	**01EB45M**	**01C45M**	**01C2**	52	101	101	13	120	114	118	118	165	M12 or *1/2 in.*	4
1 15/16	**DF02**	**01EB115**	**01C115**	**01C2**	52	101	101	13	120	114	118	118	165	M12 or *1/2 in.*	4
50	**DF02**	**01EB50M**	**01C50M**	**01C2**	52	101	101	13	120	114	118	118	165	M12 or *1/2 in.*	4
2	**DF02**	**01EB200**	**01C200**	**01C2**	52	101	101	13	120	114	118	118	165	M12 or *1/2 in.*	4
55	**DF03**	**01EB55M**	**01C55M**	**01C3**	55	107	107	16	146	136	149	141	184	M16 or *5/8 in.*	5,6
2 3/16	**DF03**	**01EB203**	**01C203**	**01C3**	55	107	107	16	146	136	149	141	184	M16 or *5/8 in.*	5,6
2 1/4	**DF03**	**01EB204**	**01C204**	**01C3**	55	107	107	16	146	136	149	141	184	M16 or *5/8 in.*	5,6
60	**DF03**	**01EB60M**	**01C60M**	**01C3**	55	107	107	16	146	136	149	141	184	M16 or *5/8 in.*	5,6
2 7/16	**DF03**	**01EB207**	**01C207**	**01C3**	55	107	107	16	146	136	149	141	184	M16 or *5/8 in.*	5,6
2 1/2	**DF03**	**01EB208**	**01C208**	**01C3**	55	107	107	16	146	136	149	141	184	M16 or *5/8 in.*	5,6
65	**DF03**	**01EB65M**	**01C65M**	**01C3**	55	107	107	16	146	136	149	141	184	M16 or *5/8 in.*	5,6
2 11/16	**DF04**	**01EB211**	**01C211**	**01C4**	60	117	117	16	178	164	175	171	217	M20 or *3/4 in.*	8,5
2 3/4	**DF03**	**100B212**	**100C212**	**100C3**	55	107	107	16	146	136	149	141	184	M16 or *5/8 in.*	5,6
	DF04	**01EB212**	**01C212**	**01C4**	60	117	117	16	178	164	175	171	217	M20 or *3/4 in.*	8,5
70	**DF03**	**100B70M**	**100C70M**	**100C3**	55	107	107	16	146	136	149	141	184	M16 or *5/8 in.*	5,6
	DF04	**01EB70M**	**01C70M**	**01C4**	60	117	117	16	178	164	175	171	217	M20 or *3/4 in.*	8,5
2 15/16	**DF03**	**100B215**	**100C215**	**100C3**	55	107	107	16	146	136	149	141	184	M16 or *5/8 in.*	5,6
	DF04	**01EB215**	**01C215**	**01C4**	60	117	117	16	178	164	175	171	217	M20 or *3/4 in.*	8,5
75	**DF03**	**100B75M**	**100C75M**	**100C3**	55	107	107	16	146	136	149	141	184	M16 or *5/8 in.*	5,6
	DF04	**01EB75M**	**01C75M**	**01C4**	60	117	117	16	178	164	175	171	217	M20 or *3/4 in.*	8,5

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

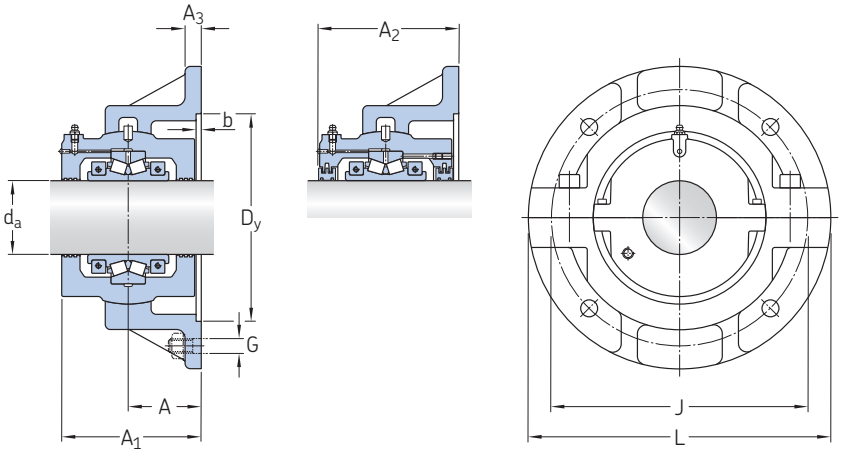
Shaft diameter	Designations[1]				Dimensions									Attachment bolts	Mass
	Housing	Bearing	Cartridge with felt seals	Cartridge for laby-rinth seals	A	A_1	A_2	A_3	D_y	J min.	J max.	J_1	L	G	Housing
d_a															
mm/*in.*	–				mm									–	kg
3	**DF03**	**100B300**	**100C300**	**100C3**	55	107	107	16	146	136	149	141	184	M16 or *5/8 in.*	5,6
	DF04	**01EB300**	**01C300**	**01C4**	60	117	117	16	178	164	175	171	217	M20 or *3/4 in.*	8,5
80	**DFN0510**	**01EB80M**	**01C80M**	**01C5**	79	147	147	25	180	171	171	171	214[2]	M20 or *3/4 in.*	11
3 3/16	**DFN0510**	**01EB303**	**01C303**	**01C5**	79	147	147	25	180	171	171	171	214[2]	M20 or *3/4 in.*	11
3 1/4	**DFN0510**	**01EB304**	**01C304**	**01C5**	79	147	147	25	180	171	171	171	214[2]	M20 or *3/4 in.*	11
85	**DF04**	**100B85M**	**100C85M**	**100C4**	60	117	117	16	178	164	175	171	217	M20 or *3/4 in.*	8,5
	DFN0510	**01EB85M**	**01C85M**	**01C5**	79	147	147	25	180	171	171	171	214[2]	M20 or *3/4 in.*	11
3 7/16	**DF04**	**100B307**	**100C307**	**100C4**	60	117	117	16	178	164	175	171	217	M20 or *3/4 in.*	8,5
	DFN0510	**01EB307**	**01C307**	**01C5**	79	147	147	25	180	171	171	171	214[2]	M20 or *3/4 in.*	11
3 1/2	**DFN0510**	**01EB308**	**01C308**	**01C5**	79	147	147	25	180	171	171	171	214[2]	M20 or *3/4 in.*	11
90	**DFN0510**	**01EB90M**	**01C90M**	**01C5**	79	147	147	25	180	171	171	171	214[2]	M20 or *3/4 in.*	11
100	**DFN0510**	**100B100M**	**100C100M**	**100C5**	79	147	147	25	180	171	171	171	214[2]	M20 or *3/4 in.*	11
3 15/16	**DFN0510**	**100B315**	**100C315**	**100C5**	79	147	147	25	180	171	171	171	214[2]	M20 or *3/4 in.*	11
4	**DFN0510**	**100B400**	**100C400**	**100C5**	79	147	147	25	180	171	171	171	214[2]	M20 or *3/4 in.*	11

[1] Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

[2] Applies to the mounting face of the flange. Joint bosses project beyond the footprint of the mounting face. The width over the joint bosses is 255 mm.

5.3 Housings with a round flange for split tapered rolling bearings

d_a **75 – 180** mm



Grease groove seals Labyrinth seals

Shaft diameter	Designations[1]				Dimensions								Attachment bolts	Mass
	Housing	Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals										Housing
d_a					A	A_1	A_2	A_3	D_y	b[2]	J	L[3]	G	
mm	–				mm								–	kg
75	**FN05**	**1DTB75M**	**1DTC75GR75M**	**1DTC75GR30TL**	79	148	149	19	215,9	3	274	330	M16	19,5
80	**FN06**	**1DTB80M**	**1DTC80GR80M**	**1DTC80GR35TL**	86	156	157	19	244,48	3	302	356	M16	22
90	**FN06**	**1DTB90M**	**1DTC90GR90M**	**1DTC90GR35TL**	86	159	160	19	244,48	3	302	356	M16	22
100	**FN07**	**1DTB100M**	**1DTC100GR100M**	**1DTC100GR40TL**	92	177	178	22	276,23	3	334	382	M16	26,5
110	**FN08**	**1DTB110M**	**1DTC110GR110M**	**1DTC110GR45TL**	98	187	188	22	314,33	3	374	432	M24	35
120	**FN08**	**1DTB120M**	**1DTC120GR120M**	**1DTC120GR50TL**	98	187	188	22	314,33	3	374	432	M24	35
130	**FN09**	**1DTB130M**	**1DTC140GR130M**	**1DTC140GR50TL**	98	193	194	25	317,5	3	384	444	M24	41
140	**FN09**	**1DTB140M**	**1DTC140GR140M**	**1DTC140GR55TL**	98	193	194	25	317,5	3	384	444	M24	41
150	**FN11**	**1DTB150M**	**1DTC160GR150M**	**1DTC160GR60TL**	105	205	206	25	352,43	3	426	496	M24	58
160	**FN11**	**1DTB160M**	**1DTC160GR160M**	**1DTC160GR65TL**	105	205	206	25	352,43	3	426	496	M24	58
180	**FN31**	**1DTB180M**	**1DTC180GR180M**	**1DTC180GR70TL**	124	224	227	25	393,7	3	466	534	M24	81

[1] Only basic designations are shown. Other bearing options are available on request. For additional information, refer to *Designations* on **page 186**. For cartridges with rubber lip seal and retaining plate, contact SKF..

[2] Recommended depth of locating spigot on bulkhead. (The housing recess is deeper than the dimension provided.) Where rubber lip seal and retaining plate are used, the cartridge assembly may protrude into the bulkhead. For additional information, contact SKF.

[2] As-cast dimension. Depending upon the manufacturing method used, the flange supplied may be machined 5 mm smaller than the dimension provided.

6 Hanger housings

Hanger housings are a compact means of supporting the shafts of screw conveyors and similar equipment. The bearing is mounted directly into a split housing, called a hanger, with a threaded boss (without a cartridge), to allow suspension from the conveyor cross-bracing.

Designs and variants

Hanger housings are available in three designs (**fig. 1**):

- single boss type, standard, for suspension from a single rod above (to minimize the obstruction to material flow in scroll conveyors)
- double boss type, where locating the housing from above and below is desired
- triple boss type, for locating the hanger in three places located 120 degrees apart

They are only suitable for the non-locating bearing position (designation suffix EX). Bearings in the 100 series offer the lowest housing frontal area for a given shaft diameter.

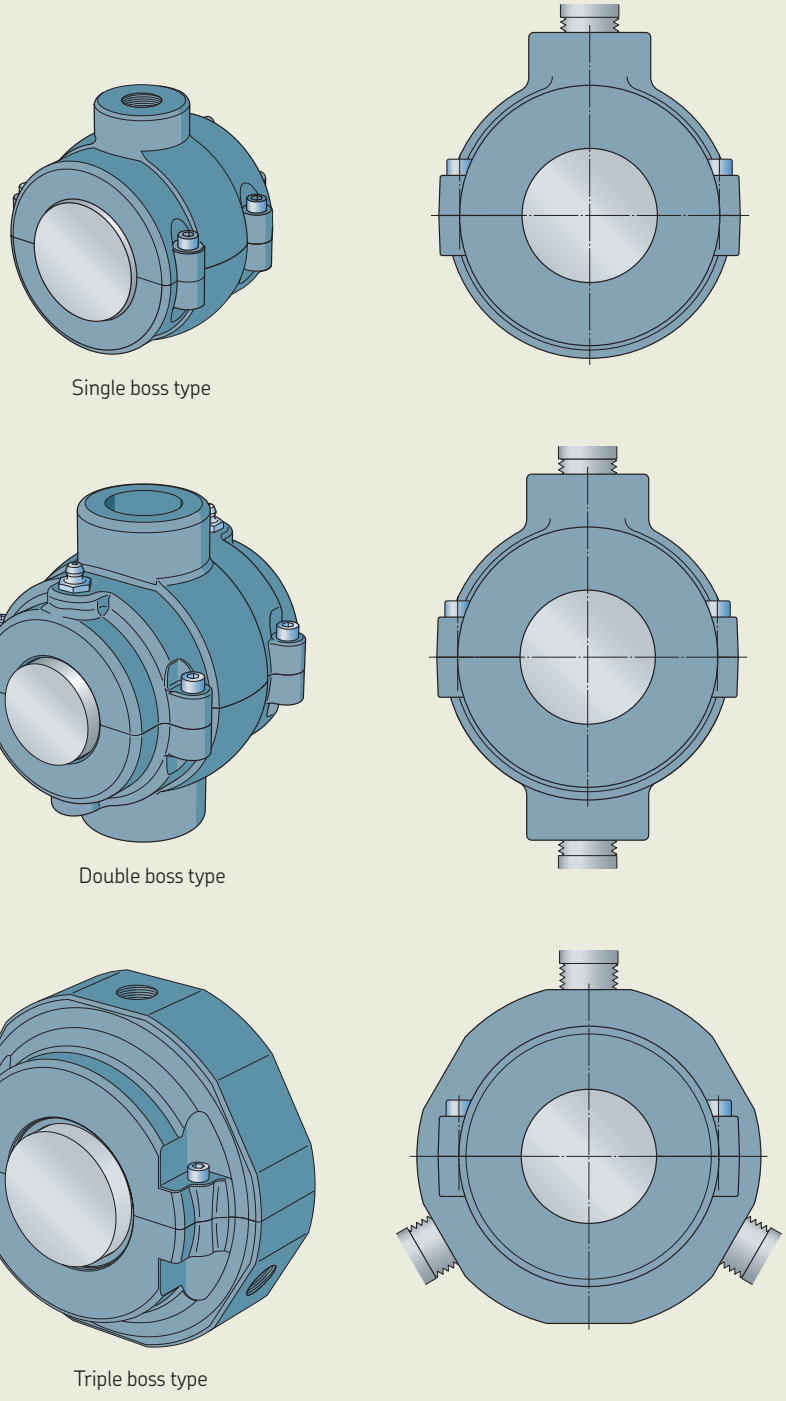
Housing materials

- grey cast iron (grade EN-GJL-250 in accordance with BS EN 1561), as standard

Alternative materials are available. Please contact SKF for more information.

Fig. 1

Hanger housings



Single boss type

Double boss type

Triple boss type

Sealing

As hanger housings do not have cartridges, the seals are mounted directly into the housing. The housing can accommodate:

- double felt seals, as standard
- rubber lip or high temperature packing seals, on request

Alternative seals, for example heavy-duty lip seals (**fig. 2**), are available on request and require a housing with different machining.

Design considerations

Bearing alignment

SKF recommends a swivel fixing at the cross-bracing joint to provide for alignment of the bearing (**fig. 3**).

Lubrication

Lubrication points are not fitted to hangers as standard, with provision for lubrication of the bearing usually made through the suspension rod. Continuous grease lubrication is sometimes desirable.

Grease purging

SKF can supply the housings with tapped holes that lead into the space between the seal grooves at each end of the housing (**fig. 2**, designation suffix AP). This is for connection to either a grease supply or an air supply for regular or continuous purging of the seals.

Fig. 2

Hanger with heavy-duty lip seals

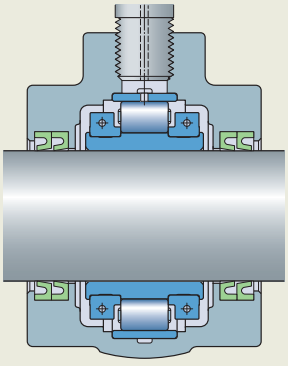
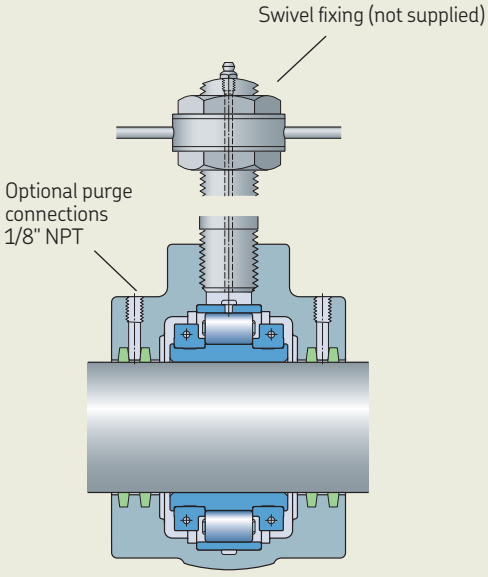


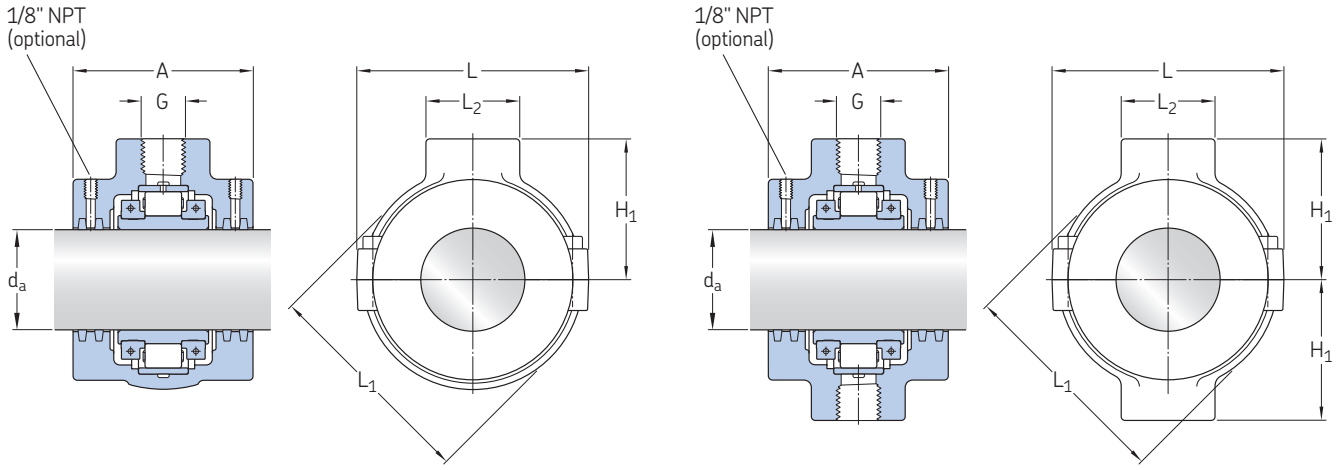
Fig. 3

Aligning the bearing



6.1 Single and double boss hanger housings for split cylindrical roller bearings

d_a **40 – 125** mm
1 1/2 – 5 *in.*



Single boss

Double boss

Shaft diameter d_a	**Designations**[1] Housing	Bearing	**Dimensions** A	H_1	L	L_1	L_2	G	**Mass** Housing[2]
mm/*in.*	–		mm						kg
1 1/2	**01H108**	**01EB108EX**	108	66	106	100	50	1"– 8 UNC	2,6
40	**01H40M**	**01EB40MEX**	108	66	106	100	50	M30	2,6
1 11/16	**01H111**	**01EB111EX**	108	76	123	118	50	1"– 8 UNC	4,1
1 3/4	**01H112**	**01EB112EX**	108	76	123	118	50	1"– 8 UNC	4,1
45	**01H45M**	**01EB45MEX**	108	76	123	118	50	M30	4,1
1 15/16	**01H115**	**01EB115EX**	108	76	123	118	50	1"– 8 UNC	4,1
50	**01H50M**	**01EB50MEX**	108	76	123	118	50	M30	4,1
2	**01H200**	**01EB200EX**	108	76	123	118	50	1"– 8 UNC	4,1
55	**01H55M**	**01EB55MEX**	108	82	139	134	50	M30	4,7
2 3/16	**01H203**	**01EB203EX**	108	82	139	134	50	1"– 8 UNC	4,7
2 1/4	**01H204**	**01EB204EX**	108	82	139	134	50	1"– 8 UNC	4,7
60	**01H60M**	**01EB60MEX**	108	82	139	134	50	M30	4,7
2 7/16	**01H207**	**01EB207EX**	108	82	139	134	50	1"– 8 UNC	4,7
2 1/2	**01H208**	**01EB208EX**	108	82	139	134	50	1"– 8 UNC	4,7
65	**01H65M**	**01EB65MEX**	108	82	139	134	50	M30	4,7
2 11/16	**01H211**	**01EB211EX**	130	92	162	158	50	1"– 8 UNC	8
2 3/4	**100H212** **01H212**	**100B212EX** **01EB212EX**	108 130	82 92	139 162	134 158	50 50	1"- 8 UNC 1"– 8 UNC	4,7 8
70	**100H70M** **01H70M**	**100B70MEX** **01EB70MEX**	108 130	82 92	139 162	134 158	50 50	M30 M30	4,7 8

[1] Only basic designations are shown. Housings are supplied with double felt seals as standard. For double boss units, add the designation suffix DOUBLE BOSS e.g. 01H207 DOUBLE BOSS. The designation suffix EX refers to bearings in the non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**
[2] The mass provided is for single boss housings. The mass for double boss housings is slightly heavier.

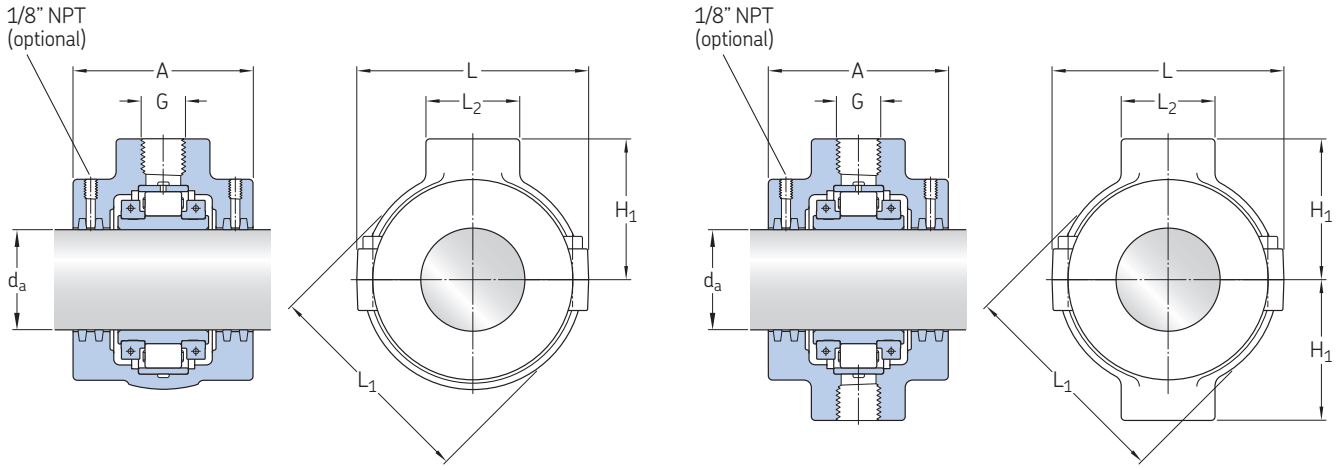
Shaft diameter d_a	Designations[1] Housing	Bearing	Dimensions A	H_1	L	L_1	L_2	G	Mass Housing[2]
mm/*in.*	–		mm						kg
2 15/16	**100H215**	**100B215EX**	108	82	139	134	50	1"– 8 UNC	4,7
	01H215	**01EB215EX**	130	92	162	158	50	1"– 8 UNC	8
75	**100H75M**	**100B75MEX**	108	82	139	134	50	M30	4,7
	01H75M	**01EB75MEX**	130	92	162	158	50	M30	8
3	**100H300**	**100B300EX**	108	82	139	134	50	1"– 8 UNC	4,7
	01H300	**01EB300EX**	130	92	162	158	50	1"– 8 UNC	8
80	**01H80M**	**01EB80MEX**	146	114	188	178	76	M36	12
3 3/16	**01H303**	**01EB303EX**	146	114	188	178	76	1 1/2" – 6 UNC	12
3 1/4	**01H304**	**01EB304EX**	146	114	188	178	76	1 1/2" – 6 UNC	12
85	**100H85M**	**100B85MEX**	130	92	162	158	50	M30	8
	01H85M	**01EB85MEX**	146	114	188	178	76	M36	12
3 7/16	**100H307**	**100B307EX**	130	92	162	158	50	1"– 8 UNC	8
	01H307	**01EB307EX**	146	114	188	178	76	1 1/2" – 6 UNC	12
3 1/2	**01H308**	**01EB308EX**	146	114	188	178	76	1 1/2" – 6 UNC	12
90	**01H90M**	**01EB90MEX**	146	114	188	178	76	M36	12
3 11/16	**01H311**	**01EB311EX**	152	127	204	203	76	1 1/2" – 6 UNC	14
95	**01H95M**	**01EB95MEX**	152	127	204	203	76	M36	14
3 3/4	**01H312**	**01EB312EX**	152	127	204	203	76	1 1/2" – 6 UNC	14
100	**100H100M**	**100B100MEX**	146	114	188	178	76	M36	12
	01H100M	**01EB100MEX**	152	127	204	203	76	M36	14
3 15/16	**100H315**	**100B315EX**	146	114	188	178	76	1 1/2" – 6 UNC	12
	01H315	**01EB315EX**	152	127	204	203	76	1 1/2" – 6 UNC	14
4	**100H400**	**100B400EX**	146	114	188	178	76	1 1/2" – 6 UNC	12
	01H400	**01EB400EX**	152	127	204	203	76	1 1/2" – 6 UNC	14
105	**01H105M**	**01EB105MEX**	152	127	204	203	76	M36	14
4 3/16	**01H403**	**01EB403EX**	156	140	226	232	76	1 1/2" – 6 UNC	16,5
110	**100H110M**	**100B110MEX**	152	127	204	203	76	M36	14
	01H110M	**01EB110MEX**	156	140	226	232	76	M36	16,5
4 7/16	**100H407**	**100B407EX**	152	127	204	203	76	1 1/2" – 6 UNC	14
	01H407	**01EB407EX**	156	140	226	232	76	1 1/2" – 6 UNC	16,5
4 1/2	**100H408**	**100B408EX**	152	127	204	203	76	1 1/2" – 6 UNC	14
	01H408	**01EB408EX**	156	140	226	232	76	1 1/2" – 6 UNC	16,5
115	**100H115M**	**100B115MEX**	152	127	204	203	76	M36	14
	01H115M	**01EB115MEX**	156	140	226	232	76	M36	16,5
120	**100H120M**	**100B120MEX**	156	140	226	232	76	M36	16,5
	01H120M	**01EB120MEX**	162	156	238	276	76	M36	22,5
125	**100H125M**	**100B125MEX**	156	140	226	232	76	M36	16,5
	01H125M	**01EB125MEX**	162	156	238	276	76	M36	22,5
4 15/16	**100H415**	**100B415EX**	156	140	226	232	76	1 1/2" – 6 UNC	16,5
	01H415	**01EB415EX**	162	156	238	276	76	1 1/2" – 6 UNC	22,5
5	**100H500**	**100B500EX**	156	140	226	232	76	1 1/2" – 6 UNC	16,5
	01H500	**01EB500EX**	162	156	238	276	76	1 1/2" – 6 UNC	22,5

[1] Only basic designations are shown. Housings are supplied with double felt seals as standard. For double boss units, add the designation suffix DOUBLE BOSS e.g. 01H207 DOUBLE BOSS. The designation suffix EX refers to bearings in the non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

[2] The mass provided is for single boss housings. The mass for double boss housings is slightly heavier.

6.1 Single and double boss hanger housings for split cylindrical roller bearings

d_a **130 – 150** mm
6 3/16 – 6 *in.*



Single boss

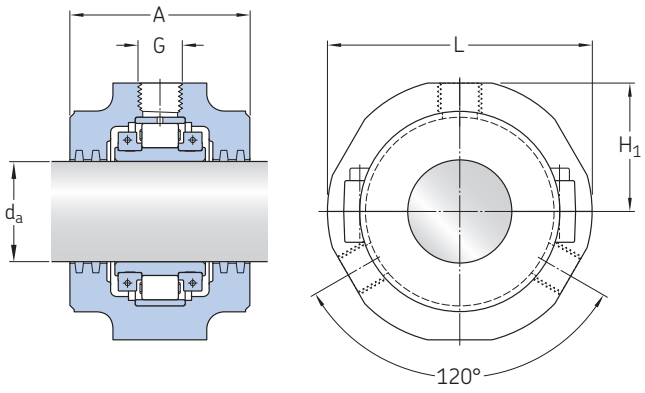
Double boss

Shaft diameter d_a	**Designations**[1] Housing	Bearing	**Dimensions** A	H_1	L	L_1	L_2	G	**Mass** Housing[2]
mm/*in.*	–		mm						kg
130	**100H130M**	**100B130MEX**	156	140	226	232	76	M36	16,5
	01H130M	**01EB130MEX**	162	156	238	276	76	M36	22,5
6 3/16	**01H503**	**01EB503EX**	158	160	264	280	76	1 1/2" – 6 UNC	21
135	**01H135M**	**01EB135MEX**	158	160	264	280	76	M36	21
5 7/16	**100H507**	**100B507EX**	162	156	238	276	76	1 1/2" – 6 UNC	22,5
	01H507	**01EB507EX**	158	160	264	280	76	1 1/2" – 6 UNC	21
5 1/2	**100H508**	**100B508EX**	162	156	238	276	76	1 1/2" – 6 UNC	22,5
	01H508	**01EB508EX**	158	160	264	280	76	1 1/2" – 6 UNC	21
140	**100H140M**	**100B140MEX**	162	156	238	276	76	M36	22,5
	01H140M	**01EB140MEX**	158	160	264	280	76	M36	21
150	**100H150M**	**100B150MEX**	158	160	264	280	76	M36	21
5 15/16	**100H515**	**100B515EX**	158	160	264	280	76	1 1/2" – 6 UNC	21
6	**100H600**	**100B600EX**	158	160	264	280	76	1 1/2" – 6 UNC	21

[1] Only basic designations are shown. Housings are supplied with double felt seals as standard. For double boss units, add the designation suffix DOUBLE BOSS e.g. 01H207 DOUBLE BOSS. The designation suffix EX refers to bearings in the non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**
[2] The mass provided is for single boss housings. The mass for double boss housings is slightly heavier.

6.2 Triple boss hanger housings for split cylindrical roller bearings

d_a **45 – 130** mm
1 11/16 – 5 *in.*



Shaft diameter d_a	Designations[1] Housing	Bearing	Dimensions A	H_1	L	G	Mass Housing
mm/*in.*	–		mm				kg
1 11/16	**01H111 TRIPLE BOSS**	**01EB111EX**	109	76	160	1"– 8 UNC	6,4
1 3/4	**01H112 TRIPLE BOSS**	**01EB112EX**	109	76	160	1"– 8 UNC	6,4
45	**01H45M TRIPLE BOSS**	**01EB45MEX**	109	76	160	M30	6,4
1 15/16	**01H115 TRIPLE BOSS**	**01EB115EX**	109	76	160	1"– 8 UNC	6,4
50	**01H50M TRIPLE BOSS**	**01EB50MEX**	109	76	160	M30	6,4
2	**01H200 TRIPLE BOSS**	**01EB200EX**	109	76	160	1"– 8 UNC	6,4
2 11/16	**01H211 TRIPLE BOSS**	**01EB211EX**	130	92	190	1"– 8 UNC	10
2 3/4	**01H212 TRIPLE BOSS**	**01EB212EX**	130	92	190	1"– 8 UNC	10
70	**01H70M TRIPLE BOSS**	**01EB70MEX**	130	92	190	M30	10
2 15/16	**01H215 TRIPLE BOSS**	**01EB215EX**	130	92	190	1"– 8 UNC	10
75	**01H75M TRIPLE BOSS**	**01EB75MEX**	130	92	190	M30	10
3	**01H300 TRIPLE BOSS**	**01EB300EX**	130	92	190	1"– 8 UNC	10
85	**100H85M TRIPLE BOSS**	**100B85MEX**	130	92	190	M30	10
3 7/16	**100H307 TRIPLE BOSS**	**100B307EX**	130	92	190	1"– 8 UNC	10
4 3/16	**01H403 TRIPLE BOSS**	**01EB403EX**	170	140	290	1 1/2" – 6 UNC	30
110	**01H110M TRIPLE BOSS**	**01EB110MEX**	170	140	290	M36	30
4 7/16	**01H407 TRIPLE BOSS**	**01EB407EX**	170	140	290	1 1/2" – 6 UNC	30
4 1/2	**01H408 TRIPLE BOSS**	**01EB408EX**	170	140	290	1 1/2" – 6 UNC	30
115	**01H115M TRIPLE BOSS**	**01EB115MEX**	170	140	290	M36	30
120	**100H120M TRIPLE BOSS**	**100B120MEX**	170	140	290	M36	30
125	**100H125M TRIPLE BOSS**	**100B125MEX**	170	140	290	M36	30
4 15/16	**100H415 TRIPLE BOSS**	**100B415EX**	170	140	290	1 1/2" – 6 UNC	30
5	**100H500 TRIPLE BOSS**	**100B500EX**	170	140	290	1 1/2" – 6 UNC	30
130	**100H130M TRIPLE BOSS**	**100B130MEX**	170	140	290	M36	30

[1] Only basic designations are shown. Housings are supplied with double felt seals as standard. The designation suffix EX refers to bearings in the non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

7 Take-up housings

Take-up housings are an efficient means of tensioning the pulleys of conveyors and elevators. The units consist of a split cylindrical roller bearing in a swivel cartridge mounted in a cast iron sliding unit.

Designs and variants

Take-up housings are available in two designs:

- push type (**fig. 1**)
- tension type (**fig. 2**)

The housings are typically mounted at each end of the shaft with an end cover using a locating bearing on each side (**fig. 3**).

Additional information about end cover designations is on **page 190**.

Housing materials

- grey cast iron (grade EN-GJL-250 in accordance with BS EN 1561), as standard

Alternative materials are available. Please contact SKF for more information.

Fig. 1

Push type take-up housing

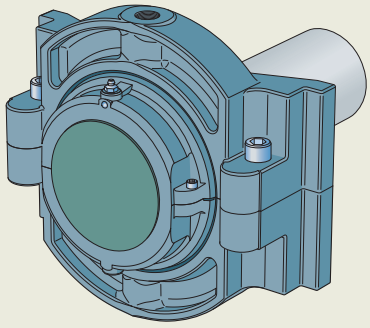


Fig. 2

Tension type take-up housing

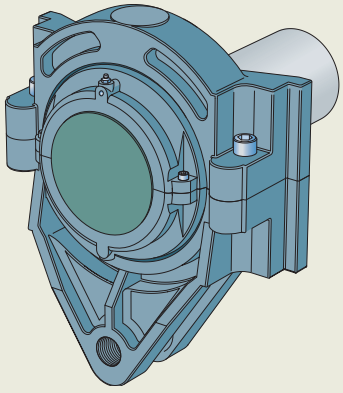
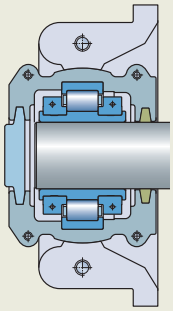


Fig. 3

Shaft end design

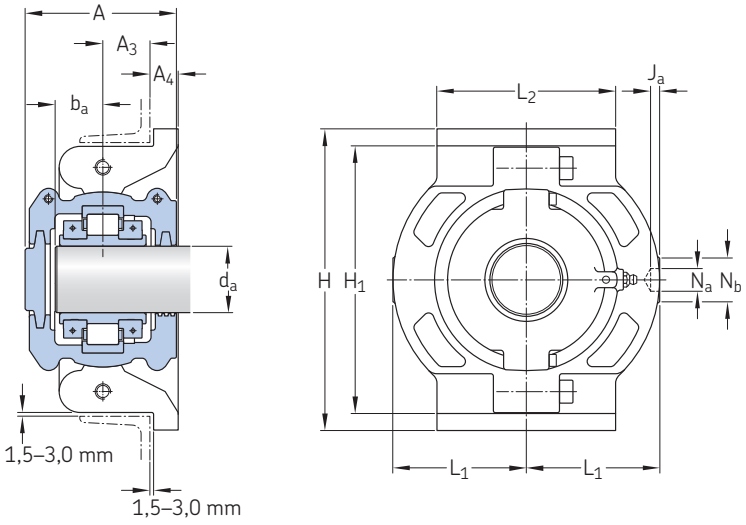


$d_a \leq 90$ mm or $3\,1/2$ in.

7.1 Push type take-up housings for split cylindrical roller bearings

d_a **35 – 60** mm

1 3/16 – 2 7/16 *in.*

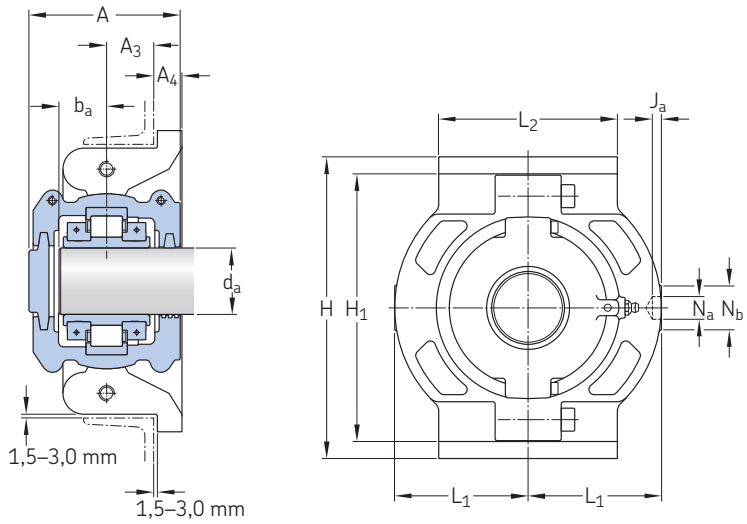


Shaft diameter d_a	Designations[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions A	A_3	A_4	b_a	H	H_1	L_1	L_2	N_a	N_b	J_a	Mass Housing
mm/*in.*	–				mm											kg
1 3/16	**TP01**	**01EB103GR**	**–**	**01C1GR**	86	29	14	27	172	153	76	102	13	25	5	6
1 1/4	**TP01**	**01EB104GR**	**–**	**01C1GR**	86	29	14	27	172	153	76	102	13	25	5	6
35	**TP01**	**01EB35MGR**	**–**	**01C1GR**	86	29	14	27	172	153	76	102	13	25	5	6
1 7/16	**TP01**	**01EB107GR**	**–**	**01C1GR**	86	29	14	27	172	153	76	102	13	25	5	6
1 1/2	**TP01**	**01EB108GR**	**01C108GR**	**01C1GR**	86	29	14	27	172	153	76	102	13	25	5	6
40	**TP01**	**01EB40MGR**	**01C40MGR**	**01C1GR**	86	29	14	27	172	153	76	102	13	25	5	6
1 11/16	**TP02**	**01EB111GR**	**01C111GR**	**01C2GR**	98	29	16	29	204	178	88	114	13	29	5	9
1 3/4	**TP02**	**01EB112GR**	**01C112GR**	**01C2GR**	98	29	16	29	204	178	88	114	13	29	5	9
45	**TP02**	**01EB45MGR**	**01C45MGR**	**01C2GR**	98	29	16	29	204	178	88	114	13	29	5	9
1 15/16	**TP02**	**01EB115GR**	**01C115GR**	**01C2GR**	98	29	16	29	204	178	88	114	13	29	5	9
	TP03	**02EB115GR**	**02C115GR**	**02C3GR**	114	32	20	35	235	203	102	128	16	38	6	12
50	**TP02**	**01EB50MGR**	**01C50MGR**	**01C2GR**	98	29	16	29	204	178	88	114	13	29	5	9
	TP03	**02EB50MGR**	**02C50MGR**	**02C3GR**	114	32	20	35	235	203	102	128	16	38	6	12
2	**TP02**	**01EB200GR**	**01C200GR**	**01C2GR**	98	29	16	29	204	178	88	114	13	29	5	9
	TP03	**02EB200GR**	**02C200GR**	**02C3GR**	114	32	20	35	235	203	102	128	16	38	6	12
55	**TP03**	**01EB55MGR**	**01C55MGR**	**01C3GR**	104	32	20	30	235	203	102	128	16	38	6	13
2 3/16	**TP03**	**01EB203GR**	**01C203GR**	**01C3GR**	104	32	20	30	235	203	102	128	16	38	6	13
	TP04	**02EB203GR**	**02C203GR**	**02C4GR**	126	40	22	38	266	229	114	152	16	41	6	17
2 1/4	**TP03**	**01EB204GR**	**01C204GR**	**01C3GR**	104	32	20	30	235	203	102	128	16	38	6	13
	TP04	**02EB204GR**	**02C204GR**	**02C4GR**	126	40	22	38	266	229	114	152	16	41	6	17
60	**TP03**	**01EB60MGR**	**01C60MGR**	**01C3GR**	104	32	20	30	235	203	102	128	16	38	6	13
	TP04	**02EB60MGR**	**02C60MGR**	**02C4GR**	126	40	22	38	266	229	114	152	16	41	6	17
2 7/16	**TP03**	**01EB207GR**	**01C207GR**	**01C3GR**	104	32	20	30	235	203	102	128	16	38	6	13
	TP04	**02EB207GR**	**02C207GR**	**02C4GR**	126	40	22	38	266	229	114	152	16	41	6	17

[1] The designation suffix GR refers to bearings in the locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

7.1 Push type take-up housings for split cylindrical roller bearings

d_a **65 – 125** mm
2 1/2 – 5 *in.*



$d_a \leq 90$ mm or 3 1/2 in.

Shaft diameter d_a	Designations[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions A	A_3	A_4	b_a	H	H_1	L_1	L_2	N_a	N_b	J_a	Mass Housing
mm/*in.*	–				mm											kg
2 1/2	**TP03**	**01EB208GR**	**01C208GR**	**01C3GR**	104	32	20	30	235	203	102	128	16	38	6	13
	TP04	**02EB208GR**	**02C208GR**	**02C4GR**	126	40	22	38	266	229	114	152	16	41	6	17
65	**TP03**	**01EB65MGR**	**01C65MGR**	**01C3GR**	104	32	20	30	235	203	102	128	16	38	6	13
	TP04	**02EB65MGR**	**02C65MGR**	**02C4GR**	126	40	22	38	266	229	114	152	16	41	6	17
2 11/16	**TP04**	**01EB211GR**	**01C211GR**	**01C4GR**	114	40	22	35	266	229	114	152	16	41	6	17
	TP05	**02EB211GR**	**02C211GR**	**02C5GR**	140	40	22	41	318	280	140	190	16	51	6	27
2 3/4	**TP03**	**100B212GR**	**100C212GR**	**100C3GR**												
	TP04	**01EB212GR**	**01C212GR**	**01C4GR**	114	40	22	35	266	229	114	152	16	41	6	17
	TP05	**02EB212GR**	**02C212GR**	**02C5GR**	140	40	22	41	318	280	140	190	16	51	6	27
70	**TP03**	**100B70MGR**	**100C70MGR**	**100C3GR**												
	TP04	**01EB70MGR**	**01C70MGR**	**01C4GR**	114	40	22	35	266	229	114	152	16	41	6	17
	TP05	**02EB70MGR**	**02C70MGR**	**02C5GR**	140	40	22	41	318	280	140	190	16	51	6	27
2 15/16	**TP03**	**100B215GR**	**100C215GR**	**100C3GR**	104	32	20	30	235	203	102	128	16	38	6	13
	TP04	**01EB215GR**	**01C215GR**	**01C4GR**	114	40	22	35	266	229	114	152	16	41	6	17
	TP05	**02EB215GR**	**02C215GR**	**02C5GR**	140	40	22	41	318	280	140	190	16	51	6	27
75	**TP03**	**100B75MGR**	**100C75MGR**	**100C3GR**	104	32	20	30	235	203	102	128	16	38	6	13
	TP04	**01EB75MGR**	**01C75MGR**	**01C4GR**	114	40	22	35	266	229	114	152	16	41	6	17
	TP05	**02EB75MGR**	**02C75MGR**	**02C5GR**	140	40	22	41	318	280	140	190	16	51	6	27
3	**TP03**	**100B300GR**	**100C300GR**	**100C3GR**	104	32	20	30	235	203	102	128	16	38	6	13
	TP04	**01EB300GR**	**01C300GR**	**01C4GR**	114	40	22	35	266	229	114	152	16	41	6	17
	TP05	**02EB300GR**	**02C300GR**	**02C5GR**	140	40	22	41	318	280	140	190	16	51	6	27
80	**TP05**	**01EB80MGR**	**01C80MGR**	**01C5GR**	136	40	22	40	318	280	140	190	16	51	6	27
	TP06	**02EB80MGR**	**02C80MGR**	**02C6GR**	154	43	22	48	342	305	152	204	19	51	6	31
3 3/16	**TP05**	**01EB303GR**	**01C303GR**	**01C5GR**	136	40	22	40	318	280	140	190	16	51	6	27
	TP06	**02EB303GR**	**02C303GR**	**02C6GR**	154	43	22	48	342	305	152	204	19	51	6	31
3 1/4	**TP05**	**01EB304GR**	**01C304GR**	**01C5GR**	136	40	22	40	318	280	140	190	16	51	6	27
	TP06	**02EB304GR**	**02C304GR**	**02C6GR**	154	43	22	48	342	305	152	204	19	51	6	31
85	**TP04**	**100B85MGR**	**100C85MGR**	**100C4GR**	114	40	22	35	266	229	114	152	16	41	6	17
	TP05	**01EB85MGR**	**01C85MGR**	**01C5GR**	136	40	22	40	318	280	140	190	16	51	6	27
	TP06	**02EB85MGR**	**02C85MGR**	**02C6GR**	154	43	22	48	342	305	152	204	19	51	6	31

[1] The designation suffix GR refers to bearings in the locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

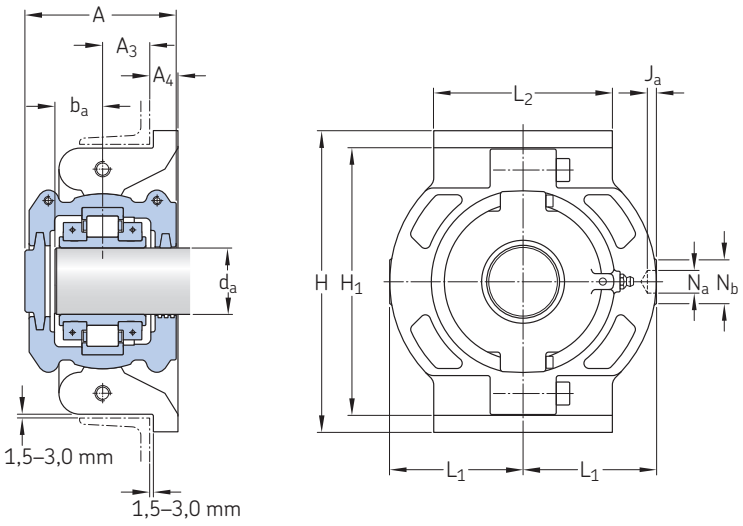
Shaft diameter d_a	Designations[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions A	A_3	A_4	b_a	H	H_1	L_1	L_2	N_a	N_b	J_a	Mass Housing
mm/*in.*	–				mm											kg
3 7/16	**TP04**	**100B307GR**	**100C307GR**	**100C4GR**	114	40	22	35	266	229	114	152	16	41	6	17
	TP05	**01EB307GR**	**01C307GR**	**01C5GR**	136	40	22	40	318	280	140	190	16	51	6	27
	TP06	**02EB307GR**	**02C307GR**	**02C6GR**	154	43	22	48	342	305	152	204	19	51	6	31
3 1/2	**TP05**	**01EB308GR**	**01C308GR**	**01C5GR**	136	40	22	40	318	280	140	190	16	51	6	27
	TP06	**02EB308GR**	**02C308GR**	**02C6GR**	154	43	22	48	342	305	152	204	19	51	6	31
90	**TP05**	**01EB90MGR**	**01C90MGR**	**01C5GR**	136	40	22	40	318	280	140	190	16	51	6	27
	TP06	**02EB90MGR**	**02C90MGR**	**02C6GR**	154	43	22	48	342	305	152	204	19	51	6	31
3 11/16	**TP06**	**01EB311GR**	**01C311GR**	**01C6GR**	134	43	22	–	342	305	152	204	19	51	6	31
	TP07	**02EB311GR**	**02C311GR**	**02C7GR**	146	48	22	–	382	343	162	216	19	70	6	46
95	**TP06**	**01EB95MGR**	**01C95MGR**	**01C6GR**	134	43	22	–	342	305	152	204	19	51	6	31
3 3/4	**TP06**	**01EB312GR**	**01C312GR**	**01C6GR**	134	43	22	–	342	305	152	204	19	51	6	31
	TP07	**02EB312GR**	**02C312GR**	**02C7GR**	146	48	22	–	382	343	162	216	19	70	6	46
100	**TP05**	**100B100MGR**	**100C100MGR**	**100C5GR**	136	40	22	–	318	280	140	190	16	51	6	26
	TP06	**01EB100MGR**	**01C100MGR**	**01C6GR**	134	43	22	–	342	305	152	204	19	51	6	31
	TP07	**02EB100MGR**	**02C100MGR**	**02C7GR**	146	48	22	–	382	343	162	216	19	70	6	46
3 15/16	**TP05**	**100B315GR**	**100C315GR**	**100C5GR**	136	40	22	–	318	280	140	190	16	51	6	26
	TP06	**01EB315GR**	**01C315GR**	**01C6GR**	134	43	22	–	342	305	152	204	19	51	6	31
	TP07	**02EB315GR**	**02C315GR**	**02C7GR**	146	48	22	–	382	343	162	216	19	70	6	46
4	**TP05**	**100B400GR**	**100C400GR**	**100C5GR**	136	40	22	–	318	280	140	190	16	51	6	26
	TP06	**01EB400GR**	**01C400GR**	**01C6GR**	134	43	22	–	342	305	152	204	19	51	6	31
	TP07	**02EB400GE**	**02C400GR**	**02C7GR**	146	48	22	–	382	343	162	216	19	70	6	46
105	**TP06**	**01EB105MGR**	**01C105MGR**	**01C6GR**	134	43	22	–	342	305	152	204	19	51	6	31
	TP07	**02EB105MGR**	**02C105MGR**	**02C7GR**	146	48	22	–	382	343	162	216	19	70	6	46
4 3/16	**TP07**	**01EB403GR**	**01C403GR**	**01C7GR**	142	48	22	–	382	343	162	216	19	70	6	46
	TP08	**02EB403GR**	**02C403GR**	**02C8GR**	162	51	25	–	420	381	190	254	19	76	6	65
110	**TP06**	**100B110MGR**	**100C110MGR**	**100C6GR**	134	43	22	–	342	305	152	204	19	51	6	29
	TP07	**01EB110MGR**	**01C110MGR**	**01C7GR**	142	48	22	–	382	343	162	216	19	70	6	46
	TP08	**02EB110MGR**	**02C110MGR**	**02C8GR**	162	51	25	–	420	381	190	254	19	76	6	65
4 7/16	**TP06**	**100B407GR**	**100C407GR**	**100C6GR**	134	43	22	–	342	305	152	204	19	51	6	29
	TP07	**01EB407GR**	**01C407GR**	**01C7GR**	142	48	22	–	382	343	162	216	19	70	6	46
	TP08	**02EB407GR**	**02C407GR**	**02C8GR**	162	51	25	–	420	381	190	254	19	76	6	65
4 1/2	**TP06**	**100B408GR**	**100C408GR**	**100C6GR**	134	43	22	–	342	305	152	204	19	51	6	29
	TP07	**01EB408GR**	**01C408GR**	**01C7GR**	142	48	22	–	382	343	162	216	19	70	6	46
	TP08	**02EB408GR**	**02C408GR**	**02C8GR**	162	51	25	–	420	381	190	254	19	76	6	65
115	**TP06**	**100B115MGR**	**100C115MGR**	**100C6GR**	134	43	22	–	342	305	152	204	19	51	6	29
	TP07	**01EB115MGR**	**01C115MGR**	**01C7GR**	142	48	22	–	382	343	162	216	19	70	6	46
	TP08	**02EB115MGR**	**02C115MGR**	**02C8GR**	162	51	25	–	420	381	190	254	19	76	6	65
120	**TP07**	**100B120MGR**	**100C120MGR**	**100C7GR**	142	48	22	–	382	343	162	216	19	70	6	42
	TP08	**01EB120MGR**	**01C120MGR**	**01C8GR**	156	51	25	–	420	381	190	254	19	76	6	65
	TP10	**02EB120MGR**	**02C120MGR**	**02C10GR**	184	57	25	–	464	426	204	266	23	86	8	91
125	**TP07**	**100B125MGR**	**100C125MGR**	**100C7GR**	142	48	22	–	382	343	162	216	19	70	6	42
	TP08	**01EB125MGR**	**01C125MGR**	**01C8GR**	156	51	25	–	420	381	190	254	19	76	6	65
	TP10	**02EB125MGR**	**02C125MGR**	**02C10GR**	184	57	25	–	464	426	204	266	23	86	8	91
4 15/16	**TP07**	**100B415GR**	**100C415GR**	**100C7GR**	142	48	22	–	382	343	162	216	19	70	6	42
	TP08	**01EB415GR**	**01C415GR**	**01C8GR**	156	51	25	–	420	381	190	254	19	76	6	65
	TP10	**02EB415GR**	**02C415GR**	**02C10GR**	184	57	25	–	464	426	204	266	23	86	8	91
5	**TP07**	**100B500GR**	**100C500GR**	**100C7GR**	142	48	22	–	382	343	162	216	19	70	6	42
	TP08	**01EB500GR**	**01C500GR**	**01C8GR**	156	51	25	–	420	381	190	254	19	76	6	65
	TP10	**02EB500GR**	**02C500GR**	**02C10GR**	184	57	25	–	464	426	204	266	23	86	8	91

[1] The designation suffix GR refers to bearings in the locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

7.1 Push type take-up housings for split cylindrical roller bearings

d_a **130 – 160** mm

5 3/16 – 6 *in.*



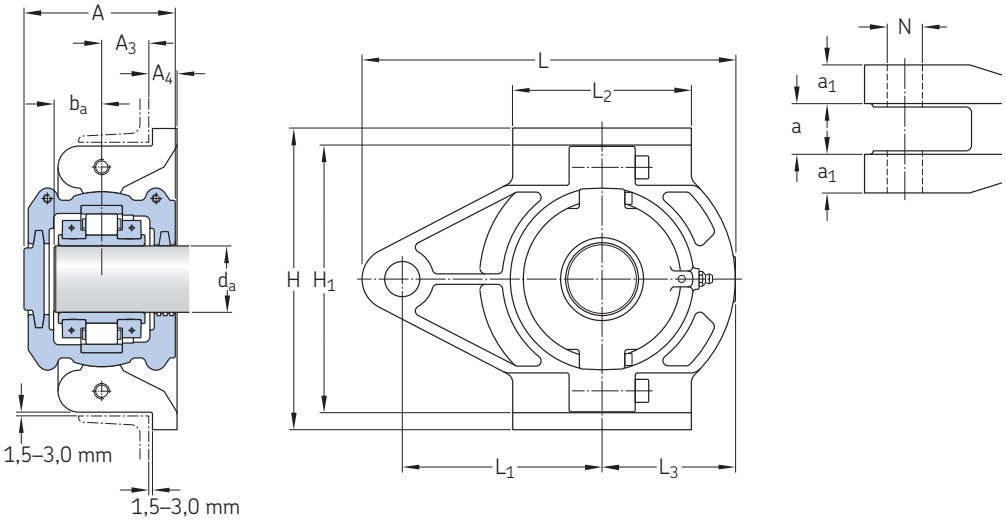
Shaft diameter d_a	Designations[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions A	A_3	A_4	H	H_1	L_1	L_2	N_a	N_b	J_a	Mass Housing
mm/*in.*	–				mm										kg
130	**TP07**	**100B130MGR**	**100C130MGR**	**100C7GR**	142	48	22	382	343	162	216	19	70	6	42
	TP08	**01EB130MGR**	**01C130MGR**	**01C8GR**	156	51	25	420	381	190	254	19	76	6	65
	TP10	**02EB130MGR**	**02C130MGR**	**02C10GR**	184	57	25	464	426	204	266	23	86	8	91
5 3/16	**TP09**	**01EB503GR**	**01C503GR**	**01C9GR**	168	54	25	438	400	196	266	23	76	8	80
	TP30	**02EB503GR**	**02C503GR**	**02C30GR**	188	60	25	502	464	222	280	23	92	8	113
135	**TP09**	**01EB135MGR**	**01C135MGR**	**01C9GR**	168	54	25	438	400	196	266	23	76	8	80
5 7/16	**TP08**	**100B507GR**	**100C507GR**	**100C8GR**	156	51	25	420	381	190	254	19	76	6	60
	TP09	**01EB507GR**	**01C507GR**	**01C9GR**	168	54	25	438	400	196	266	23	76	8	80
	TP30	**02EB507GR**	**02C507GR**	**02C30GR**	188	60	25	502	464	222	280	23	92	8	113
5 1/2	**TP08**	**100B508GR**	**100C508GR**	**100C8GR**	156	51	25	420	381	190	254	19	76	6	60
	TP09	**01EB508GR**	**01C508GR**	**01C9GR**	168	54	25	438	400	196	266	23	76	8	80
	TP30	**02EB508GR**	**02C508GR**	**02C30GR**	188	60	25	502	464	222	280	23	92	8	113
140	**TP08**	**100B140MGR**	**100C140MGR**	**100C8GR**	156	51	25	420	381	190	254	19	76	6	60
	TP09	**01EB140MGR**	**01C140MGR**	**01C9GR**	168	54	25	438	400	196	266	23	76	8	80
	TP30	**02EB140MGR**	**02C140MGR**	**02C30GR**	188	60	25	502	464	222	280	23	92	8	113
145	**TP30**	**02EB145MGR**	**02C145MGR**	**02C30GR**	188	60	25	502	464	222	280	23	92	8	113
150	**TP09**	**100B150MGR**	**100C150MGR**	**100C9GR**	168	54	25	438	400	196	266	23	76	8	73
	TP10	**01EB150MGR**	**01C150MGR**	**01C10GR**	174	57	25	464	426	204	266	23	86	8	91
	TP31	**02EB150MGR**	**02C150MGR**	**02C31GR**	204	64	25	528	489	235	305	26	92	10	136
5 15/16	**TP09**	**100B515GR**	**100C515GR**	**100C9GR**	168	54	25	438	400	196	266	23	76	8	73
	TP10	**01EB515GR**	**01C515GR**	**01C10GR**	174	57	25	464	426	204	266	23	86	8	91
	TP31	**02EB515GR**	**02C515GR**	**02C31GR**	204	64	25	528	489	235	305	26	92	10	136
6	**TP09**	**100B600GR**	**100C600GR**	**100C9GR**	168	54	25	438	400	196	266	23	76	8	73
	TP10	**01EB600GR**	**01C600GR**	**01C10GR**	174	57	25	464	426	204	266	23	86	8	91
	TP31	**02EB600GR**	**02C600GR**	**02C31GR**	204	64	25	528	489	235	305	26	92	10	136
155	**TP31**	**02EB155MGR**	**02C155MGR**	**02C31GR**	204	64	25	528	489	235	305	26	92	10	136
160	**TP10**	**01EB160MGR10**	**01C160MGR10**	**01C10GR10**	174	57	25	464	426	204	266	23	86	8	91
	TP31	**02EB160MGR10**	**02C160MGR10**	**02C31GR10**	204	64	25	528	489	235	305	26	92	10	136

[1] The designation suffix GR refers to bearings in the locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

7.2 Tension type take-up housings for split cylindrical roller bearings

d_a **35 – 60** mm

1 3/16 – 2 7/16 *in.*

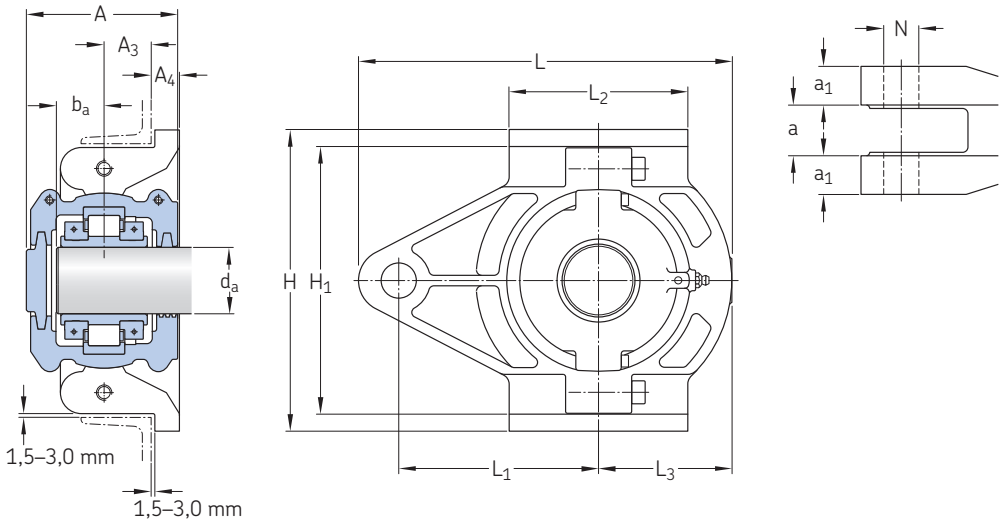


Shaft diameter d_a	Designations[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions A	A_3	A_4	a	a_1	b_a	H	H_1	L	L_1	L_2	L_3	N	Mass Housing
mm/*in.*	–				mm													kg
1 3/16	**TT01**	**01EB103GR**	**–**	**01C1GR**	86	29	14	25	24	27	172	153	216	114	102	76	20	7
1 1/4	**TT01**	**01EB104GR**	**–**	**01C1GR**	86	29	14	25	24	27	172	153	216	114	102	76	20	7
35	**TT01**	**01EB35MGR**	**–**	**01C1GR**	86	29	14	25	24	27	172	153	216	114	102	76	20	7
1 7/16	**TT01**	**01EB107GR**	**–**	**01C1GR**	86	29	14	25	24	27	172	153	216	114	102	76	20	7
1 1/2	**TT01**	**01EB108GR**	**01C108GR**	**01C1GR**	86	29	14	25	24	27	172	153	216	114	102	76	20	7
40	**TT01**	**01EB40MGR**	**01C40MGR**	**01C1GR**	86	29	14	25	24	27	172	153	216	114	102	76	20	7
1 11/16	**TT02**	**01EB111GR**	**01C111GR**	**01C2GR**	98	29	16	25	25	29	204	178	242	128	114	88	24	10
1 3/4	**TT02**	**01EB112GR**	**01C112GR**	**01C2GR**	98	29	16	25	25	29	204	178	242	128	114	88	24	10
45	**TT02**	**01EB45MGR**	**01C45MGR**	**01C2GR**	98	29	16	25	25	29	204	178	242	128	114	88	24	10
1 15/16	**TT02**	**01EB115GR**	**01C115GR**	**01C2GR**	98	29	16	25	25	29	204	178	242	128	114	88	24	10
	TT03	**02EB115GR**	**02C115GR**	**02C3GR**	114	32	20	30	29	35	235	203	280	146	128	102	24	13
50	**TT02**	**01EB50MGR**	**01C50MGR**	**01C2GR**	98	29	16	25	25	29	204	178	242	128	114	88	24	10
	TT03	**02EB50MGR**	**02C50MGR**	**02C3GR**	114	32	20	30	29	35	235	203	280	146	128	102	24	13
2	**TT02**	**01EB200GR**	**01C200GR**	**01C2GR**	98	29	16	25	25	29	204	178	242	128	114	88	24	10
	TT03	**02EB200GR**	**02C200GR**	**02C3GR**	114	32	20	30	29	35	235	203	280	146	128	102	24	13
55	**TT03**	**01EB55MGR**	**01C55MGR**	**01C3GR**	104	32	20	30	29	30	235	203	280	146	128	102	24	13
2 3/16	**TT03**	**01EB203GR**	**01C203GR**	**01C3GR**	104	32	20	30	29	30	235	203	280	146	128	102	24	13
	TT04	**02EB203GR**	**02C03GR**	**02C4GR**	126	40	22	30	32	38	266	229	305	158	152	114	24	19
2 1/4	**TT03**	**01EB204GR**	**01C204GR**	**01C3GR**	104	32	20	30	29	30	235	203	280	146	128	102	24	13
	TT04	**02EB204GR**	**02C204GR**	**02C4GR**	126	40	22	30	32	38	266	229	305	158	152	114	24	19
60	**TT03**	**01EB60MGR**	**01C60MGR**	**01C3GR**	104	32	20	30	29	30	235	203	280	146	128	102	24	13
	TT04	**02EB60MGR**	**02C60MGR**	**02C4GR**	126	40	22	30	32	38	266	229	305	158	152	114	24	19
2 7/16	**TT03**	**01EB207GR**	**01C207GR**	**01C3GR**	104	32	20	30	29	30	235	203	280	146	128	102	24	13
	TT04	**02EB207GR**	**02C207GR**	**02CC4GR**	126	40	22	30	32	38	266	229	305	158	152	114	24	19

[1] The designation suffix GR refers to bearings in the locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

7.2 Tension type take-up housings for split cylindrical roller bearings

d_a **65 – 125** mm
2 1/2 – 5 *in.*



$d_a \leq 90$ mm or 3 1/2 in.

Shaft diameter d_a	Designations[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions A	A_3	A_4	a	a_1	b_a	H	H_1	L	L_1	L_2	L_3	N	Mass Housing
mm/*in.*	–				mm													kg
2 1/2	**TT03**	**01EB208GR**	**01C208GR**	**01C3GR**	104	32	20	30	29	30	235	203	280	146	128	102	24	13
	TT04	**02EB208GR**	**02C208GR**	**02C4GR**	126	49	22	30	32	38	266	229	305	158	152	114	24	19
65	**TT03**	**01EB65MGR**	**01C65MGR**	**01C3GR**	104	32	20	30	29	30	235	203	280	146	128	102	24	13
	TT04	**02EB65MGR**	**02C65MGR**	**02C4GR**	126	49	22	30	32	38	266	229	305	158	152	114	24	19
2 11/16	**TT04**	**01EB211GR**	**01C211GR**	**01C4GR**	114	40	22	30	32	35	266	229	305	158	152	114	24	19
	TT05	**02EB211GR**	**02C211GR**	**02C5GR**	140	40	22	38	35	41	318	280	368	190	190	140	30	30
2 3/4	**TT03**	**100B212GR**	**100C212GR**	**100C3GR**	104	32	20	30	29	30	235	203	280	146	128	102	24	13
	TT04	**01EB212GR**	**01C212GR**	**01C4GR**	114	40	22	30	32	35	266	229	305	158	152	114	24	19
	TT05	**02EB212GR**	**02C212GR**	**02C5GR**	140	40	22	38	35	41	318	280	368	190	190	140	30	30
70	**TT03**	**100B70MGR**	**100C70MGR**	**100C3GR**	104	32	20	30	29	30	235	203	280	146	128	102	24	13
	TT04	**01EB70MGR**	**01C70MGR**	**01C4GR**	114	40	22	30	32	35	266	229	305	158	152	114	24	19
	TT05	**02EB70MGR**	**02C70MGR**	**02C5GR**	140	40	22	38	35	41	318	280	368	190	190	140	30	30
2 15/16	**TT03**	**100B215GR**	**100C215GR**	**100C3GR**	104	32	20	30	29	30	235	203	280	146	128	102	24	13
	TT04	**01EB215GR**	**01C215GR**	**01C4GR**	114	40	22	30	32	35	266	229	305	158	152	114	24	19
	TT05	**02EB215GR**	**02C215GR**	**02C5GR**	140	40	22	38	35	41	318	280	368	190	190	140	30	30
75	**TT03**	**100B75MGR**	**100C75MGR**	**100C3GR**	104	32	20	30	29	30	235	203	280	146	128	102	24	13
	TT04	**01EB75MGR**	**01C75MGR**	**01C4GR**	114	40	22	30	32	35	266	229	305	158	152	114	24	19
	TT05	**02EB75MGR**	**02C75MGR**	**02C5GR**	140	40	22	38	35	41	318	280	368	190	190	140	30	30
3	**TT03**	**100B300GR**	**100C300GR**	**100C3GR**	104	32	20	30	29	30	235	203	280	146	128	102	24	13
	TT04	**01EB300GR**	**01C300GR**	**01C4GR**	114	40	22	30	32	35	266	229	305	158	152	114	24	19
	TT05	**02EB300GR**	**02C300GR**	**02C5GR**	140	40	22	38	35	41	318	280	368	190	190	140	30	30
80	**TT05**	**01EB80MGR**	**01C80MGR**	**01C5GR**	136	40	22	38	35	40	318	280	368	190	190	140	30	30
	TT06	**02EB80MGR**	**02C80MGR**	**02C6GR**	154	43	22	44	35	48	342	305	414	210	204	152	36	34
3 3/16	**TT05**	**01EB303GR**	**01C303GR**	**01C5GR**	136	40	22	38	35	40	318	280	368	190	190	140	30	30
	TT06	**02EB303GR**	**02C303GR**	**02C6GR**	154	43	22	44	35	48	342	305	414	210	204	152	36	34
3 1/4	**TT05**	**01EB304GR**	**01C304GR**	**01C5GR**	136	40	22	38	35	40	318	280	368	190	190	140	30	30
	TT06	**02EB340GR**	**02C304GR**	**02C6GR**	154	43	22	44	35	48	342	305	414	210	204	152	36	34
85	**TT04**	**100B85MGR**	**100C85MGR**	**100C4GR**	114	40	22	30	32	35	266	229	305	158	152	114	24	19
	TT05	**01EB85MGR**	**01C85MGR**	**01C5GR**	136	40	22	38	35	40	318	280	368	190	190	140	30	30
	TT06	**02EB85MGR**	**02C85MGR**	**02C6GR**	154	43	22	44	35	48	342	305	414	210	204	152	36	34

[1] The designation suffix GR refers to bearings in the locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

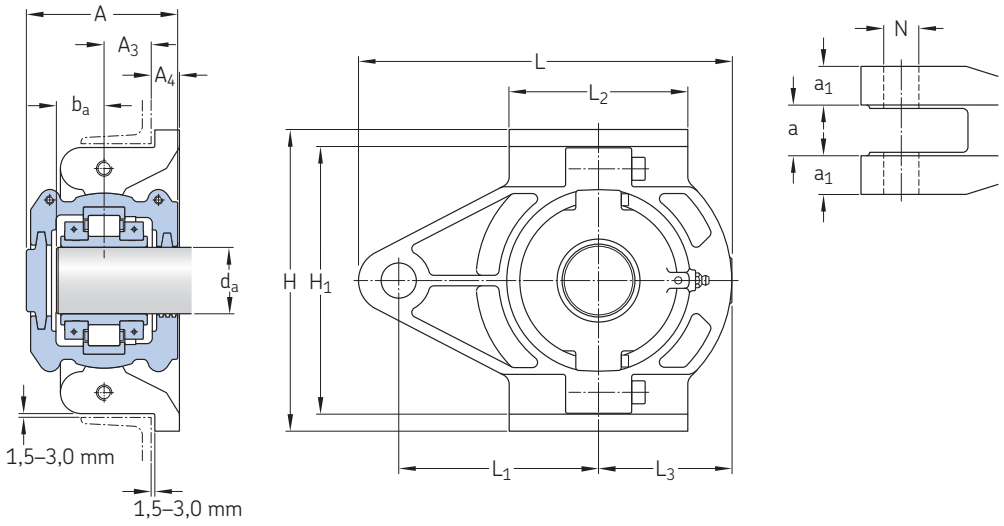
Shaft diameter d_a	Designations[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions A	A_3	A_4	a	a_1	b_a	H	H_1	L	L_1	L_2	L_3	N	Mass Housing
mm/*in.*	–				mm													kg
3 7/16	**TT04**	**100B307GR**	**100C307GR**	**100C4GR**	114	40	22	30	32	35	266	229	305	158	152	114	24	19
	TT05	**01EB307GR**	**01C307GR**	**01C5GR**	136	40	22	38	35	40	318	280	368	190	190	140	30	30
	TT06	**02EB307GR**	**02C307GR**	**02C6GR**	154	43	22	44	35	48	342	305	414	210	204	152	36	34
3 1/2	**TT05**	**01EB308GR**	**01C308GR**	**01C5GR**	136	40	22	38	35	40	318	280	368	190	190	140	30	30
	TT06	**02EB308GR**	**02C308GR**	**02C6GR**	154	43	22	44	35	48	342	305	414	210	204	152	36	34
90	**TT05**	**01EB90MGR**	**01C90MGR**	**01C5GR**	136	40	22	38	35	40	318	280	368	190	190	140	30	30
	TT06	**02EB90MGR**	**02C90MGR**	**02C6GR**	154	43	22	44	35	48	342	305	414	210	204	152	36	34
3 11/16	**TT06**	**01EB311GR**	**01C311GR**	**01C6GR**	134	43	22	44	35	–	342	305	414	210	204	152	36	34
	TT07	**02EB311GR**	**02C311GR**	**02C7GR**	146	48	22	44	41	–	382	343	445	228	216	162	42	51
95	**TT06**	**01EB95MGR**	**01C95MGR**	**01C6GR**	134	43	22	44	35	–	342	305	414	210	204	152	36	34
3 3/4	**TT06**	**01EB312GR**	**01C312GR**	**01C6GR**	134	43	22	44	35	–	342	305	414	210	204	152	36	34
	TT07	**02EB312GR**	**02C312GR**	**02C7GR**	146	48	22	44	41	–	382	343	445	228	216	162	42	51
100	**TT05**	**100B100MGR**	**100C100MGR**	**100C5GR**	136	40	22	38	35	–	318	280	368	190	190	140	30	29
	TT06	**01EB100MGR**	**01C100MGR**	**01C6GR**	134	43	22	44	35	–	342	305	414	210	204	152	36	34
	TT07	**02EB100MGR**	**02C100MGR**	**02C7GR**	146	48	22	44	41	–	382	343	445	228	216	162	42	51
3 15/16	**TT05**	**100B315GR**	**100C315GR**	**100C5GR**	136	40	22	38	35	–	318	280	368	190	190	140	30	29
	TT06	**01EB315GR**	**01C315GR**	**01C6GR**	134	43	22	44	35	–	342	305	414	210	204	152	36	34
	TT07	**02EB315GR**	**02C315GR**	**02C7GR**	146	48	22	44	41	–	382	343	445	228	216	162	42	51
4	**TT05**	**100B400GR**	**100C400GR**	**100C5GR**	136	40	22	38	35	–	318	280	368	190	190	140	30	29
	TT06	**01EB400GR**	**01C400GR**	**01C6GR**	134	43	22	44	35	–	342	305	414	210	204	152	36	34
	TT07	**02EB400GR**	**02C400GR**	**02C7GR**	146	48	22	44	41	–	382	343	445	228	216	162	42	51
105	**TT06**	**01EB105MGR**	**01C105MGR**	**01C6GR**	134	43	22	44	35	–	342	305	414	210	204	152	36	34
	TT07	**02EB105MGR**	**02C105MGR**	**02C7GR**	146	48	22	44	41	–	382	343	445	228	216	162	42	51
4 3/16	**TT07**	**01EB403GR**	**01C403GR**	**01C7GR**	142	48	22	44	41	–	382	343	445	228	216	162	42	51
	TT08	**02EB403GR**	**02C403GR**	**02C8GR**	162	51	25	44	44	–	420	381	508	260	254	190	42	71
110	**TT06**	**100B110MGR**	**100C110MGR**	**100C6GR**	134	43	22	44	35	–	342	305	414	210	204	152	36	33
	TT07	**01EB110MGR**	**01C110MGR**	**01C7GR**	142	48	22	44	41	–	382	343	445	228	216	162	42	51
	TT08	**02EB110MGR**	**02C110MGR**	**02C8GR**	162	51	25	44	44	–	420	381	508	260	254	190	42	71
4 7/16	**TT06**	**100B407GR**	**100C407GR**	**100C6GR**	134	43	22	44	35	–	342	305	414	210	204	152	36	33
	TT07	**01EB407GR**	**01C407GR**	**01C7GR**	142	48	22	44	41	–	382	343	445	228	216	162	42	51
	TT08	**02EB407GR**	**02C407GR**	**02C8GR**	162	51	25	44	44	–	420	381	508	260	254	190	42	71
4 1/2	**TT06**	**100B408GR**	**100C408GR**	**100C6GR**	134	43	22	44	35	–	342	305	414	210	204	152	36	33
	TT07	**01EB408GR**	**01C408GR**	**01C7GR**	142	48	22	44	41	–	382	343	445	228	216	162	42	51
	TT08	**02EB408GR**	**02C408GR**	**02C8GR**	162	51	25	44	44	–	420	381	508	260	254	190	42	71
115	**TT06**	**100B115MGR**	**100C115MGR**	**100C6GR**	134	43	22	44	35	–	342	305	414	210	204	152	36	33
	TT07	**01EB115MGR**	**01C115MGR**	**01C7GR**	142	48	22	44	41	–	382	343	445	228	216	162	42	51
	TT08	**02EB115MGR**	**02C115MGR**	**02C8GR**	162	51	25	44	44	–	420	381	508	260	254	190	42	71
120	**TT07**	**100B120MGR**	**100C120MGR**	**100C7GR**	142	48	22	44	41	–	382	343	445	228	216	162	42	47
	TT08	**01EB120MGR**	**01C120MGR**	**01C8GR**	156	51	25	44	44	–	420	381	508	260	254	190	42	71
	TT10	**02EB120MGR**	**02C120MGR**	**02C10GR**	184	57	25	50	51	–	464	426	546	280	266	204	48	100
125	**TT07**	**100B125MGR**	**100C125MGR**	**100C7GR**	142	48	22	44	41	–	382	343	445	228	216	162	42	47
	TT08	**01EB125MGR**	**01C125MGR**	**01C8GR**	156	51	25	44	44	–	420	381	508	260	254	190	42	71
	TT10	**02EB125MGR**	**02C125MGR**	**02C10GR**	184	57	25	50	51	–	464	426	546	280	266	204	48	100
4 15/16	**TT07**	**100B415GR**	**100C415GR**	**100C7GR**	142	48	22	44	41	–	382	343	445	228	216	162	42	47
	TT08	**01EB415GR**	**01C415GR**	**01C8GR**	156	51	25	44	44	–	420	381	508	260	254	190	42	71
	TT10	**02EB415GR**	**02C415GR**	**02C10GR**	184	57	25	50	51	–	464	426	546	280	266	204	48	100
5	**TT07**	**100B500GR**	**100C500GR**	**100C7GR**	142	48	22	44	41	–	382	343	445	228	216	162	42	47
	TT08	**01EB500GR**	**01C500GR**	**01C8GR**	156	51	25	44	44	–	420	381	508	260	254	190	42	71
	TT10	**02EB500GR**	**02C500GR**	**02C10GR**	184	57	25	50	51	–	464	426	546	280	266	204	48	100

[1] The designation suffix GR refers to bearings in the locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

7.2 Tension type take-up housings for split cylindrical roller bearings

d_a **130 – 160** mm

5 3/16 – 6 *in.*



Shaft diameter d_a	Designations[1] Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions A	A_3	A_4	a	a_1	H	H_1	L	L_1	L_2	L_3	N	Mass Housing
mm/*in.*	–				mm												kg
130	**TT07**	**100B130MGR**	**100C130MGR**	**100C7GR**	142	48	22	44	41	382	343	445	228	216	162	42	47
	TT08	**01EB130MGR**	**01C130MGR**	**01C8GR**	156	51	25	44	44	420	381	508	260	254	190	42	71
	TT10	**02EB130MGR**	**02C130MGR**	**02C10GR**	184	57	25	50	51	464	426	546	280	266	204	48	100
5 3/16	**TT09**	**01EB503GR**	**01C503GR**	**01C9GR**	168	54	25	44	48	438	400	514	266	266	196	42	89
	TT30	**02EB503GR**	**02C503GR**	**02C30GR**	188	60	25	50	54	502	464	584	298	280	222	48	119
135	**TT09**	**01EB135MGR**	**01C135MGR**	**01C9GR**	168	54	25	44	48	438	400	514	266	266	196	42	89
5 7/16	**TT08**	**100B507GR**	**100C507GR**	**100C8GR**	156	51	25	44	44	420	381	508	260	254	190	42	67
	TT09	**01EB507GR**	**01C507GR**	**01C9GR**	168	54	25	44	48	438	400	514	266	266	196	42	89
	TT30	**02EB507GR**	**02C507GR**	**02C30GR**	188	60	25	50	54	502	464	584	298	280	222	48	119
5 1/2	**TT08**	**100B508GR**	**100C508GR**	**100C8GR**	156	51	25	44	44	420	381	508	260	254	190	42	67
	TT09	**01EB508GR**	**01C508GR**	**01C9GR**	168	54	25	44	48	438	400	514	266	266	196	42	89
	TT30	**02EB508GR**	**02C508GR**	**02C30GR**	188	60	25	50	54	502	464	584	298	280	222	48	119
140	**TT08**	**100B140MGR**	**100C140MGR**	**100C8GR**	156	51	25	44	44	420	381	508	260	254	190	42	67
	TT09	**01EB140MGR**	**01C140MGR**	**01C9GR**	168	54	25	44	48	438	400	514	266	266	196	42	89
	TT30	**02EB140MGR**	**02C140MGR**	**02C30GR**	188	60	25	50	54	502	464	584	298	280	222	48	119
145	**TT30**	**02EB145MGR**	**02C145MGR**	**02C30GR**	188	60	25	50	54	502	464	584	298	280	222	48	119
150	**TT09**	**100B150MGR**	**100C150MGR**	**100C9GR**	168	54	25	44	48	438	400	514	266	266	196	42	82
	TT10	**01EB150MGR**	**01C150MGR**	**01C10GR**	174	57	25	50	51	464	426	546	280	266	204	48	100
	TT31	**02EB150MGR**	**02C150MGR**	**02C31GR**	204	64	25	50	57	528	489	616	312	305	235	48	141
5 15/16	**TT09**	**100B515GR**	**100C515GR**	**100C9GR**	168	54	25	44	48	438	400	514	266	266	196	42	82
	TT10	**01EB515GR**	**01C515GR**	**01C10GR**	174	57	25	50	51	464	426	546	280	266	204	48	100
	TT31	**02EB515GR**	**02C515GR**	**02C31GR**	204	64	25	50	57	528	489	616	312	305	235	48	141
6	**TT09**	**100B600GR**	**100C600GR**	**100C9GR**	168	54	25	44	48	438	400	514	266	266	196	42	82
	TT10	**01EB600GR**	**01C600GR**	**01C10GR**	174	57	25	50	51	464	426	546	280	266	204	48	100
	TT31	**02EB600GR**	**02C600GR**	**02C31GR**	204	64	25	50	57	528	489	616	312	305	235	48	141
155	**TT31**	**02EB155MGR**	**02C155MGR**	**02C31GR**	204	64	25	50	57	528	489	616	312	305	235	48	141
160	**TT10**	**01EB160MGR10**	**01C160MGR10**	**01C10GR10**	174	57	25	50	51	464	426	546	280	266	204	48	100
	TT31	**02EB160MGR10**	**02C160MGR10**	**02C31GR10**	204	64	25	50	57	528	489	616	312	305	235	48	141

[1] The designation suffixe GR refers to bearings in the locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186.**

8 Rod ends

Split roller bearings in rod end housings provide a simple way of mounting bearings on cranks. As the complete bearing and housing unit is split radially, the cranks can be made solid rather than being built up or overhung. Typical applications include shaker screens and classifiers.

Designs and variants

Rod end housings have a split outer casing and are available in two designs:

- "T" type (**fig. 1**)
- shoe type (**fig. 2**)

They are suitable for:

- a locating bearing (designation suffix GR) with C2 clearance
- a swivel cartridge that is matched to the housing with an S1 fit to reduce the clearance between the cartridge and rod end

For very low speed applications, bearings with a normal clearance could be used.

Housing materials

- grey cast iron, (grade EN-GJL-250) in accordance with BS EN 1561, as standard
- ductile iron (grade EN-GJS-400/18 in accordance with BS EN 1563), e.g. for impact or pulsating loads, available on request
- steel, e.g. for impact or pulsating loads, available on request

Design considerations

Shaft dimensions

Journals should be machined to an h6 tolerance class. The sides of the journal do not require close tolerance machining as they do not locate the bearing. The bearing is positioned by the inner ring being clamped onto the shaft, and there is clearance between the sides of the journal and the bearing inner ring.

The journal widths and fillet radii listed in the product tables are suggested dimensions to clear standard cartridges. Other combinations of journal width and fillet radius may be used. Special cartridges may be supplied if narrower journals are required.

Fig. 1

"T" type rod end housing

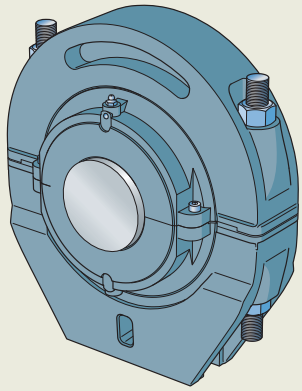
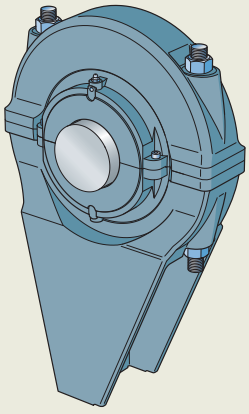


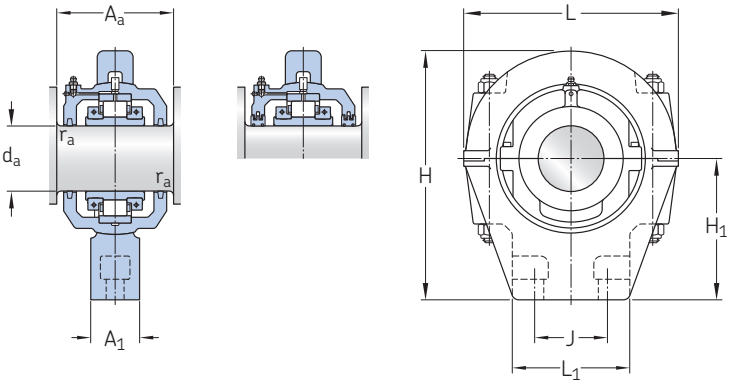
Fig. 2

Shoe type rod end housing



8.1 "T" type rod ends for split cylindrical roller bearings

d_a **35 – 60** mm
1 3/16 – 2 7/16 *in.*



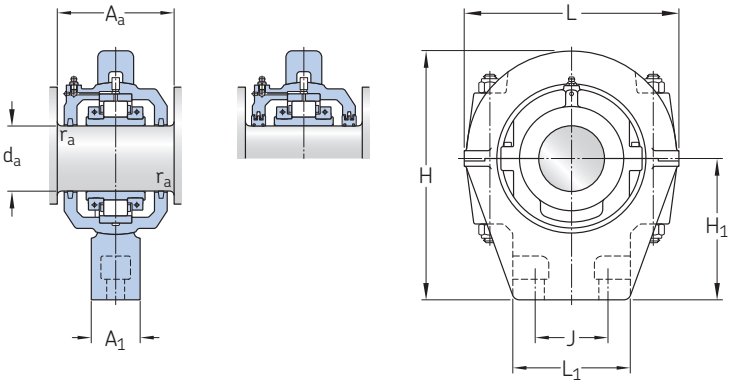
Felt seals Labyrinth seals

Shaft diameter d_a	Designations[1] Housing incl. matched cartridge	Bearing[2]	Dimensions A_1	H	H_1	L	L_1	J	Abutment dimensions A_a	r_a	Bolts G	Mass Unit
mm/*in.*	–		mm						mm		–	kg
1 3/16	**01CRET103GRS1**	**01EB103GR02**	30	152	76	140	86	57[3]	92	3	M12	6
1 1/4	**01CRET104GRS1**	**01EB104GR02**	30	152	76	140	86	57[3]	92	3	M12	6
35	**01CRET35MGRS1**	**01EB35MGR02**	30	152	76	140	86	57[3]	92	3	M12	6
1 7/16	**01CRET107GRS1**	**01EB107GR02**	30	152	76	140	86	57[3]	92	3	M12	6
1 1/2	**01CRET108GRS1**	**01EB108GR02**	30	152	76	140	86	57[3]	92	3	M12	6
40	**01CRET40MGRS1**	**01EB40MGR02**	30	152	76	140	86	57[3]	92	3	M12	6
1 11/16	**01CRET111GRS1**	**01EB111GR02**	32	190	102	166	102	70[3]	104	3	M10	8
1 3/4	**01CRET112GRS1**	**01EB112GR02**	32	190	102	166	102	70[3]	104	3	M10	8
45	**01CRET45MGRS1**	**01EB45MGR02**	32	190	102	166	102	70[3]	104	3	M10	8
1 15/16	**01CRET115GRS1**	**01EB115GR02**	32	190	102	166	102	70[3]	104	3	M10	8
	02CRET115GRS1	**02EB115GR02**	38	194	95	197	115	76[3]	123	4,5	M16	9
50	**01CRET50MGRS1**	**01EB50MGR02**	32	190	102	166	102	70[3]	104	3	M10	8
	02CRET50MGRS1	**02EB50MGR02**	38	194	95	197	115	76[3]	123	4,5	M16	9
2	**01CRET200GRS1**	**01EB200GR02**	32	190	102	166	102	70[3]	104	3	M10	8
	02CRET200GRS1	**02EB200GR02**	38	194	95	197	115	76[3]	123	4,5	M16	9
55	**01CRET55MGRS1**	**01EB55MGR02**	38	194	95	197	115	76[3]	113	4,5	M16	9
2 3/16	**01CRET203GRS1**	**01EB203GR02**	38	194	95	197	115	76[3]	113	4,5	M16	9
	02CRET203GRS1	**02EB203GR02**	44	220	108	216	128	89[3]	138	6	M16	13
2 1/4	**01CRET204GRS1**	**01EB204GR02**	38	194	95	197	115	76[3]	113	4,5	M16	9
	02CRET204GRS1	**02EB204GR02**	44	220	108	216	128	89[3]	138	6	M16	13
60	**01CRET60MGRS1**	**01EB60MGR02**	38	194	95	197	115	76[3]	113	4,5	M16	9
	02CRET60MGRS1	**02EB60MGR02**	44	220	108	216	128	89[3]	138	6	M16	13
2 7/16	**01CRET207GRS1**	**01EB207GR02**	38	194	95	197	115	76[3]	113	4,5	M16	9
	02CRET207GRS1	**02EB207GR02**	44	220	108	216	128	89[3]	138	6	M16	13

[1] Only the basic designations are shown. For housings with matched cartridge for labyrinth seals, contact SKF.
[2] Reduced clearance bearings are standard specification for use with rod ends.
[3] Holes tapped in end face.

8.1 "T" type rod ends for split cylindrical roller bearings

d_a **65 – 125** mm
2 1/2 – 5 *in.*



Felt seals Labyrinth seals

Shaft diameter d_a	Designations[1] Housing incl. matched cartridge	Bearing[2]	Dimensions A_1	H	H_1	L	L_1	J	Abutment dimensions A_a	r_a	Bolts G	Mass Unit
mm/*in.*	–		mm						mm		–	kg
2 1/2	**01CRET208GRS1**	**01EB208GR02**	38	194	95	197	115	76[3]	113	4,5	M16	9
	02CRET208GRS1	**02EB208GR02**	44	220	108	216	128	89[3]	138	6	M16	13
65	**01CRET65MGRS1**	**01EB65MGR02**	38	194	95	197	115	76[3]	113	4,5	M16	9
	02CRET65MGRS1	**02EB65MGR02**	44	220	108	216	128	89[3]	138	6	M16	13
2 11/16	**01CRET211GRS1**	**01EB211GR02**	44	220	108	216	128	89[3]	126	6	M16	13
	02CRET211GRS1	**02EB211GR02**	48	256	127	248	146	102[3]	152	6	M20	20
2 3/4	**100CRET212GRS1**	**100B212GR02**	38	194	95	197	115	76 [3]	113	4,5	M16	9
	01CRET212GRS1	**01EB212GR02**	44	220	108	216	128	89[3]	126	6	M16	13
	02CRET212GRS1	**02EB212GR02**	48	256	127	248	146	102[3]	152	6	M20	20
70	**100CRET70MGRS1**	**100B70MGR02**	38	194	95	197	115	76 [3]	113	4,5	M16	9
	01CRET70MGRS1	**01EB70MGR02**	44	220	108	216	128	89[3]	126	6	M16	13
	02CRET70MGRS1	**02EB70MGR02**	48	256	127	248	146	102[3]	152	6	M20	20
2 15/16	**100CRET215GRS1**	**100B215GR02**	38	194	95	197	115	76[3]	113	4,5	M16	9
	01CRET215GRS1	**01EB215GR02**	44	220	108	216	128	89[3]	126	6	M16	13
	02CRET215GRS1	**02EB215GR02**	48	256	127	248	146	102[3]	152	6	M20	20
75	**100CRET75MGRS1**	**100B75MGR02**	38	194	95	197	115	76[3]	113	4,5	M16	9
	01CRET75MGRS1	**01EB75MGR02**	44	220	108	216	128	89[3]	126	6	M16	13
	02CRET75MGRS1	**02EB75MGR02**	48	256	127	248	146	102[3]	152	6	M20	20
3	**100CRET300GRS1**	**100B300GR02**	38	194	95	197	115	76[3]	113	4,5	M16	9
	01CRET300GRS1	**01EB300GR02**	44	220	108	216	128	89[3]	126	6	M16	13
	02CRET300GRS1	**02EB300GR02**	48	256	127	248	146	102[3]	152	6	M20	20
80	**01CRET80MGRS1**	**01EB80MGR02**	48	256	127	248	146	102[3]	148	6	M20	20
	02CRET80MGRS1	**02EB80MGR02**	76	356	200	308	170	124	173	9,5	M24	36
3 3/16	**01CRET303GRS1**	**01EB303GR02**	48	256	127	248	146	102[3]	148	6	M20	20
	02CRET303GRS1	**02EB303GR02**	76	356	200	308	170	124	173	9,5	M24	36
3 1/4	**01CRET304GRS1**	**01EB304GR02**	48	256	127	248	146	102[3]	148	6	M20	20
	02CRET304GRS1	**02EB304GR02**	76	356	200	308	170	124	173	9,5	M24	36
85	**100CRET85MGRS1**	**100B85MGR02**	44	220	108	216	128	89[3]	126	6	M16	13
	01CRET85MGRS1	**01EB85MGR02**	48	256	127	248	146	102[3]	148	6	M20	20
	02CRET85MGRS1	**02EB85MGR02**	76	356	200	308	170	124	173	9,5	M24	36

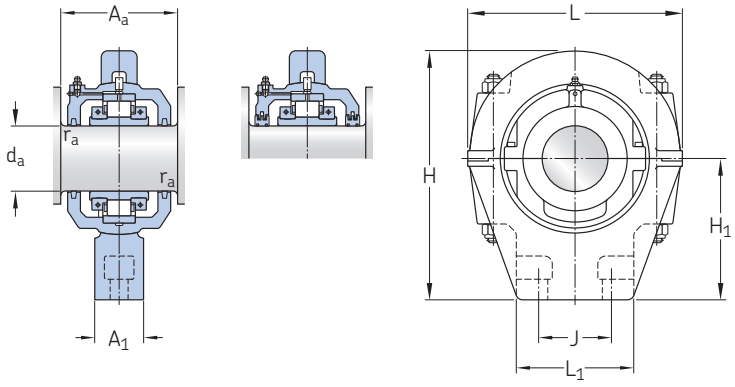
[1] Only the basic designations are shown. For housings with matched cartridge for labyrinth seals, contact SKF.
[2] Reduced clearance bearings are standard specification for use with rod ends.
[3] Holes tapped in end face.

Shaft diameter d_a	Designations[1] Housing incl. matched cartridge	Bearing[2]	Dimensions A_1	H	H_1	L	L_1	J	Abutment dimensions A_a	r_a	Bolts G	Mass Unit
mm/*in.*	–		mm						mm		–	kg
3 7/16	**100CRET307GRS1**	**100B307GR02**	44	220	108	216	128	89[3]	126	6	M16	13
	01CRET307GRS1	**01EB307GR02**	48	256	127	248	146	102[3]	148	6	M20	20
	02CRET307GRS1	**02EB307GR02**	76	356	200	308	170	124	173	9,5	M24	36
3 1/2	**01CRET308GRS1**	**01EB308GR02**	48	256	127	248	146	102[3]	148	6	M20	20
	02CRET308GRS1	**02EB308GR02**	76	356	200	308	170	124	173	9,5	M24	36
90	**01CRET90MGRS1**	**01EB90MGR02**	48	256	127	248	146	102[3]	148	6	M20	20
	02CRET90MGRS1	**02EB90MGR02**	76	356	200	308	170	124	173	9,5	M24	36
3 11/16	**01CRET311GRS1**	**01EB311GR02**	76	356	200	308	170	124	146	6	M24	36
	02CRET311GRS1	**02EB311GR02**	86	390	222	334	190	136	171	12,5	M30	52
95	**01CRET95MGRS1**	**01EB95MGR02**	76	356	200	308	170	124	146	6	M24	36
3 3/4	**01CRET312GRS1**	**01EB312GR02**	76	356	200	308	170	124	146	6	M24	36
	02CRET312GRS1	**02EB312GR02**	86	390	222	334	190	136	171	12,5	M30	52
100	**100CRET100MGRS1**	**100B100MGR02**	48	256	127	248	146	102[3]	148	6	M20	19
	01CRET100MGRS1	**01EB100MGR02**	76	356	200	308	170	124	146	6	M24	36
	02CRET100MGRS1	**02EB100MGR02**	86	390	222	334	190	136	171	12,5	M30	52
3 15/16	**100CRET315GRS1**	**100B315GR02**	48	256	127	248	146	102[3]	148	6	M20	19
	01CRET315GRS1	**01EB315GR02**	76	356	200	308	170	124	146	6	M24	36
	02CRET315GRS1	**02EB315GR02**	86	390	222	334	190	136	171	12,5	M30	52
4	**100CRET400GRS1**	**100B400GR02**	48	256	127	248	146	102[3]	148	6	M20	19
	01CRET400GRS1	**01EB400GR02**	76	356	200	308	170	124[3]	146	6	M24	36
	02CRET400GRS1	**02EB400GR02**	86	390	222	334	190	136	171	12,5	M30	52
105	**01CRET105MGRS1**	**01EB105MGR02**	76	356	200	308	170	124	146	6	M24	36
	02CRET105MGRS1	**02EB105MGR02**	86	390	222	334	190	136	171	12,5	M30	52
4 3/16	**01CRET403GRS1**	**01EB403GR02**	86	390	222	334	190	136	154	6	M30	52
	02CRET403GRS1	**02EB403GR02**	86	425	222	375	190	136	187	12,5	M30	65
110	**100CRET110MGRS1**	**100B110MGR02**	76	356	200	308	170	124	146	6	M24	35
	01CRET110MGRS1	**01EB110MGR02**	86	390	222	334	190	136	154	6	M30	52
	02CRET110MGRS1	**02EB110MGR02**	86	425	222	375	190	136	187	12,5	M30	65
4 7/16	**100CRET407GRS1**	**100B407GR02**	76	356	200	308	170	124	146	6	M24	35
	01CRET407GRS1	**01EB407GR02**	86	390	222	334	190	136	154	6	M30	52
	02CRET407GRS1	**02EB407GR02**	86	425	222	375	190	136	187	12,5	M30	65
4 1/2	**100CRET408GRS1**	**100B408GR02**	76	356	200	308	170	124	146	6	M24	35
	01CRET408GRS1	**01EB408GR02**	86	390	222	334	190	136	154	6	M30	52
	02CRET408GRS1	**02EB408GR02**	86	425	222	375	190	136	187	12,5	M30	65
115	**100CRET115MGRS1**	**100B115MGR02**	76	356	200	308	170	124	146	6	M24	35
	01CRET115MGRS1	**01EB115MGR02**	86	390	222	334	190	136	154	6	M30	52
	02CRET115MGRS1	**02EB115MGR02**	86	425	222	375	190	136	187	12,5	M30	65
120	**100CRET120MGRS1**	**100B120MGR02**	86	390	222	334	190	136	154	6	M30	48
	01CRET120MGRS1	**01EB120MGR02**	86	425	222	375	190	136	168	6	M30	65
	02CRET120MGRS1	**02EB120MGR02**	102	502	279	442	204	140	209	12,5	M30	99
125	**100CRET125MGRS1**	**100B125MGR02**	86	390	222	334	190	136	154	6	M30	48
	01CRET125MGRS1	**01EB125MGR02**	86	425	222	375	190	136	168	6	M30	65
	02CRET125MGRS1	**02EB125MGR02**	102	502	279	442	204	140	209	12,5	M30	99
4 15/16	**100CRET415GRS1**	**100B415GR02**	86	390	222	334	190	136	154	6	M30	48
	01CRET415GRS1	**01EB415GR02**	86	425	222	375	190	136	168	6	M30	65
	02CRET415GRS1	**02EB415GR02**	102	502	279	442	204	140	209	12,5	M30	99
5	**100CRET500GRS1**	**100B500GR02**	86	390	222	334	190	136	154	6	M30	48
	01CRET500GRS1	**01EB500GR02**	86	425	222	375	190	136	168	6	M30	65
	02CRET500GRS1	**02EB500GR02**	102	502	279	442	204	140	209	12,5	M30	99

[1] Only the basic designations are shown. For housings with matched cartridge for labyrinth seals, contact SKF.
[2] Reduced clearance bearings are standard specification for use with rod ends.
[3] Holes tapped in end face.

8.1 "T" type rod ends for split cylindrical roller bearings

d_a **130 – 160** mm
5 3/16 – 6 *in.*



Felt seals Labyrinth seals

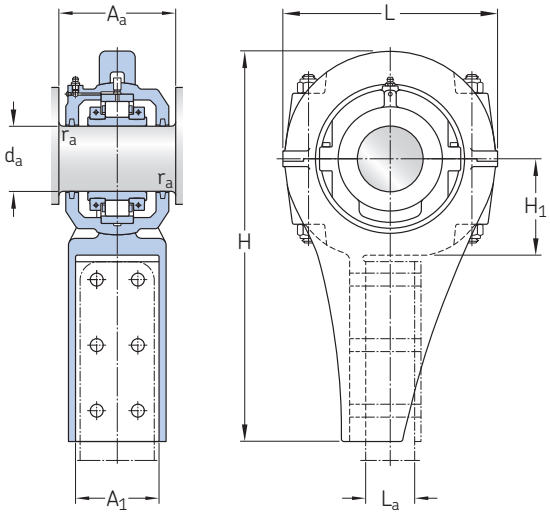
Shaft diameter d_a	Designations[1] Housing incl. matched cartridge	Bearing[2]	Dimensions A_1	H	H_1	L	L_1	J	Abutment dimensions A_a	r_a	Bolts G	Mass Unit
mm/*in.*	–		mm						mm		–	kg
130	**100CRET130MGRS1**	**100B130MGR02**	86	390	222	334	190	136	154	6	M30	48
	01CRET130MGRS1	**01EB130MGR02**	86	425	222	375	190	136	168	6	M30	65
	02CRET130MGRS1	**02EB130MGR02**	102	502	279	442	204	140	209	12,5	M30	99
5 3/16	**01CRET503GRS1**	**01EB503GR02**	102	502	279	442	204	140	187	9,5	M30	89
	02CRET503GRS1	**02EB503GR02**	102	558	279	445	204	140	213	12,5	M30	119
135	**01CRET135MGRS1**	**01EB135MGR02**	102	502	279	442	204	140	187	9,5	M30	89
5 7/16	**100CRET507GRS1**	**100B507GR02**	86	425	222	375	190	136	168	6	M30	60
	01CRET507GRS1	**01EB507GR02**	102	502	279	442	204	140	187	9,5	M30	89
	02CRET507GRS1	**02EB507GR02**	102	558	279	445	204	140	213	12,5	M30	119
5 1/2	**100CRET508GRS1**	**100B508GR02**	86	425	222	375	190	136	168	6	M30	60
	01CRET508GRS1	**01EB508GR02**	102	502	279	442	204	140	187	9,5	M30	89
	02CRET508GRS1	**02EB508GR02**	102	558	279	445	204	140	213	12,5	M30	119
140	**100CRET140MGRS1**	**100B140MGR02**	86	425	222	375	190	136	168	6	M30	60
	01CRET140MGRS1	**01EB140MGR02**	102	502	279	442	204	140	187	9,5	M30	89
	02CRET140MGRS1	**02EB140MGR02**	102	558	279	445	204	140	213	12,5	M30	119
145	**02CRET145MGRS1**	**02EB145MGR02**	102	558	279	445	204	140	213	12,5	M30	119
150	**100CRET150MGRS1**	**100B150MGR02**	102	502	279	442	204	140	187	9,5	M30	82
	01CRET150MGRS1	**01EB150MGR02**	102	502	279	442	204	140	193	9,5	M30	99
	02CRET150MGRS1	**02EB150MGR02**	102	558	279	445	204	140	229	12,5	M30	131
5 15/16	**100CRET515GRS1**	**100B515GR02**	102	502	279	442	204	140	187	9,5	M30	82
	01CRET515GRS1	**01EB515GR02**	102	502	279	442	204	140	193	9,5	M30	99
	02CRET515GRS1	**02EB515GR02**	102	558	279	445	204	140	229	12,5	M30	131
6	**100CRET600GRS1**	**100B600GR02**	102	502	279	442	204	140	187	9,5	M30	82
	01CRET600GRS1	**01EB600GR02**	102	502	279	442	204	140	193	9,5	M30	99
	02CRET600GRS1	**02EB600GR02**	102	558	279	445	204	140	229	12,5	M30	131
155	**01CRET155MGRS1**	**01EB155MGR02**	102	502	279	442	204	140	193	9,5	M30	99
	02CRET155MGRS1	**02EB155MGR02**	102	558	279	445	204	140	229	12,5	M30	131
160	[3]	**01EB160MGR20**	102	502	279	442	204	140	193	9,5	M30	99
	[3]	**02EB160MGR20**	102	558	279	445	204	140	229	12,5	M30	131

[1] Only the basic designations are shown. For housings with matched cartridge for labyrinth seals, contact SKF.
[2] Reduced clearance bearings are standard specification for use with rod ends.
[3] For housing designations, refer to SKF

8.2 Shoe type rod ends for split cylindrical roller bearings

d_a **35 – 60** mm

1 3/16 – 2 1/4 *in.*

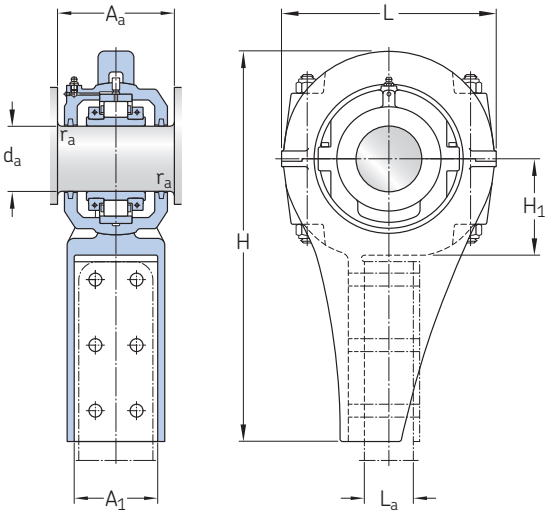


Shaft diameter d_a	Designations[1] Housing incl. matched cartridge	Bearing[2]	Dimensions A_1[3]	H	H_1	L	L_a[3]	Abutment dimensions A_a	r_a	Mass Unit
mm/*in.*	–		mm							kg
1 3/16	**01CRES103GRS1**	**01EB103GR02**	62	258	65	160	10	92	3	5
1 1/4	**01CRES104GRS1**	**01EB104GR02**	62	258	65	160	10	92	3	5
35	**01CRES35MGRS1**	**01EB35MGR02**	62	258	65	160	10	92	3	5
1 7/16	**01CRES107GRS1**	**01EB107GR02**	62	258	65	160	10	92	3	5
1 1/2	**01CRES108GRS1**	**01EB108GR02**	62	258	65	160	10	92	3	5
40	**01CRES40MGRS1**	**01EB40MGR02**	62	258	65	160	10	92	3	5
1 11/16	**01CRES111GRS1**	**01EB111GR02**	62	308	70	166	10	104	3	7
1 3/4	**01CRES112GRS1**	**01EB112GR02**	62	308	70	166	10	104	3	7
45	**01CRES45MGRS1**	**01EB45MGR02**	62	308	70	166	10	104	3	7
1 15/16	**01CRES115GRS1**	**01EB115GR02**	62	308	70	166	10	104	3	7
	02CRES115GRS1	**02EB115GR02**	62	330	76	190	32	123	4,5	10
50	**01CRES50MGRS1**	**01EB50MGR02**	62	308	70	166	10	104	3	7
	02CRES50MGRS1	**02EB50MGR02**	62	330	76	190	32	123	4,5	10
2	**01CRES200GRS1**	**01EB200GR02**	62	308	70	166	10	104	3	7
	02CRES200GRS1	**02EB200GR02**	62	330	76	190	32	123	4,5	10
55	**01CRES55MGRS1**	**01EB55MGR02**	62	330	79	190	10	113	4,5	13
2 3/16	**01CRES203GRS1**	**01EB203GR02**	62	330	79	190	10	113	4,5	13
	02CRES203GRS1	**02EB203GR02**	88	432	108	248	50	138	6	20
2 1/4	**01CRES204GRS1**	**01EB204GR02**	62	330	79	190	10	113	4,5	13
	02CRES204GRS1	**02EB204GR02**	88	432	108	248	50	138	6	20
60	**01CRES60MGRS1**	**01EB60MGR02**	62	330	79	190	10	113	4,5	13
	02CRES60MGRS1	**02EB60MGR02**	88	432	108	248	50	138	6	20

[1] Only the basic designations are shown. For housings with matched cartridge for labyrinth seals, contact SKF.
[2] Reduced clearance bearings are standard specification for use with rod ends.
[3] Two to six attachment bolts may be required depending on the application requirements.

8.2 Shoe type rod ends for split cylindrical roller bearings

d_a **65 – 120** mm
2 7/16 – 4 1/2 *in.*



Shaft diameter d_a	Designations[1] Housing incl. matched cartridge	Bearing[2]	Dimensions A_1[3]	H	H_1	L	L_a[3]	Abutment dimensions A_a	r_a	Mass Unit
mm/*in.*	–		mm							kg
2 7/16	**01CRES207GRS1**	**01EB207GR02**	62	330	79	190	10	113	4,5	13
	02CRES207GRS1	**02EB207GR02**	88	432	108	248	50	138	6	20
2 1/2	**01CRES208GRS1**	**01EB208GR02**	62	330	79	190	10	113	4,5	13
	02CRES208GRS1	**02EB208GR02**	88	432	108	248	50	138	6	20
65	**01CRES65MGRS1**	**01EB65MGR02**	62	330	79	190	10	113	4,5	13
	02CRES65MGRS1	**02EB65MGR02**	88	432	108	248	50	138	6	20
2 11/16	**01CRES211GRS1**	**01EB211GR02**	88	432	108	248	50	126	6	22
	02CRES211GRS1	**02EB211GR02**	114	540	130	248	38	152	6	40
2 3/4	**100CRES212GRS1**	**100B212GR02**	62	330	79	190	10	113	4,5	13
	01CRES212GRS1	**01EB212GR02**	88	432	108	248	50	126	6	22
	02CRES212GRS1	**02EB212GR02**	114	540	130	248	38	152	6	40
70	**100CRES70MGRS1**	**100B70MGR02**	62	330	79	190	10	113	4,5	13
	01CRES70MGRS1	**01EB70MGR02**	88	432	108	248	50	126	6	22
	02CRES70MGRS1	**02EB70MGR02**	114	540	130	248	38	152	6	40
2 15/16	**100CRES215GRS1**	**100B215GR02**	62	330	79	190	10	113	4,5	13
	01CRES215GRS1	**01EB215GR02**	88	432	108	248	50	126	6	22
	02CRES215GRS1	**02EB215GR02**	114	540	130	248	38	152	6	40
75	**100CRES75MGRS1**	**100B75MGR02**	62	330	79	190	10	113	4,5	13
	01CRES75MGRS1	**01EB75MGR02**	88	432	108	248	50	126	6	22
	02CRES75MGRS1	**02EB75MGR02**	114	540	130	248	38	152	6	40
3	**100CRES300GRS1**	**100B300GR02**	62	330	79	190	10	113	4,5	13
	01CRES300GRS1	**01EB300GR02**	88	432	108	248	50	126	6	22
	02CRES300GRS1	**02EB300GR02**	114	540	130	248	38	152	6	40
80	**01CRES80MGRS1**	**01EB80MGR02**	100	602	133	264	50	148	6	43
	02CRES80MGRS1	**02EB80MGR02**	126	610	149	334	76	173	9,5	62
3 3/16	**01CRES303GRS1**	**01EB303GR02**	100	602	133	264	50	148	6	43
	02CRES303GRS1	**02EB303GR02**	126	610	149	334	76	173	9,5	62

[1] Only the basic designations are shown. For housings with matched cartridge for labyrinth seals, contact SKF.
[2] Reduced clearance bearings are standard specification for use with rod ends.
[3] Two to six attachment bolts may be required depending on the application requirements.

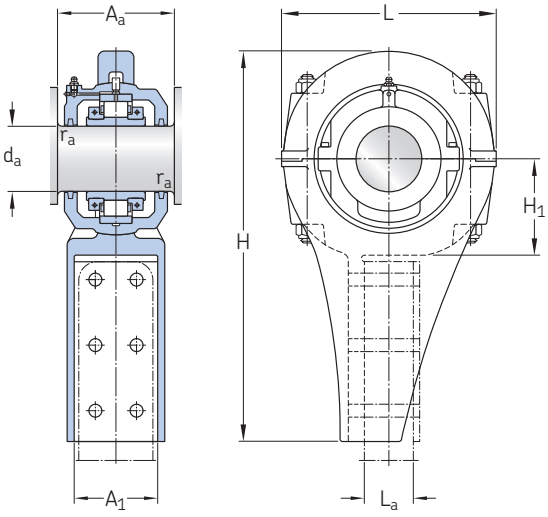
Shaft diameter d_a	Designations[1] Housing incl. matched cartridge	Bearing[2]	Dimensions A_1[3]	H	H_1	L	L_a[3]	Abutment dimensions A_a	r_a	Mass Unit
mm/*in.*	–		mm							kg
3 1/4	**01CRES304GRS1**	**01EB304GR02**	100	602	133	264	50	148	6	43
	02CRES304GRS1	**02EB304GR02**	126	610	149	334	76	173	9,5	62
85	**100CRES85MGRS1**	**100B85MGR02**	88	432	108	248	50	126	6	23
	01CRES85MGRS1	**01EB85MGR02**	100	602	133	264	50	148	6	43
	02CRES85MGRS1	**02EB85MGR02**	126	610	149	334	76	173	9,5	62
3 7/16	**100CRES307GRS1**	**100B307GR02**	88	432	108	248	50	126	6	23
	01CRES307GRS1	**01EB307GR02**	100	602	133	264	50	148	6	43
	02CRES307GRS1	**02EB307GR02**	126	610	149	334	76	173	9,5	62
3 1/2	**01CRES308GRS1**	**01EB308GR02**	100	602	133	264	50	148	6	43
	02CRES308GRS1	**02EB308GR02**	126	610	149	334	76	173	9,5	62
90	**01CRES90MGRS1**	**01EB90MGR02**	100	602	133	264	50	148	6	43
	02CRES90MGRS1	**02EB90MGR02**	126	610	149	334	76	173	9,5	62
3 11/16	**01CRES311GRS1**	**01EB311GR02**	100	572	125	308	58	146	6	44
	02CRES311GRS1	**02EB311GR02**	126	618	149	354	76	171	12,5	71
95	**01CRES95MGRS1**	**01EB95MGR02**	100	572	125	308	58	146	6	44
3 3/4	**01CRES312GRS1**	**01EB312GR02**	100	572	125	308	58	146	6	44
	02CRES312GRS1	**02EB312GR02**	126	618	149	354	76	171	12,5	71
100	**100CRES100MGRS1**	**100B100MGR02**	114	540	130	248	38	148	6	36
	01CRES100MGRS1	**01EB100MGR02**	100	572	125	308	58	146	6	44
	02CRES100MGRS1	**02EB100MGR02**	126	618	149	354	76	171	12,5	71
3 15/16	**100CRES315GRS1**	**100B315GR02**	114	540	130	248	38	148	6	36
	01CRES315GRS1	**01EB315GR02**	100	572	125	308	58	146	6	44
	02CRES315GRS1	**02EB315GR02**	126	618	149	354	76	171	12,5	71
4	**100CRES400GRS1**	**100B400GR02**	114	540	130	248	38	148	6	36
	01CRES400GRS1	**01EB400GR02**	100	572	125	308	58	146	6	44
	02CRES400GRS1	**02EB400GR02**	126	618	149	354	76	171	12,5	71
105	**01CRES105MGRS1**	**01EB105MGR02**	100	572	125	308	58	146	6	44
	02CRES105MGRS1	**02EB105MGR02**	126	618	149	354	76	171	12,5	71
4 3/16	**01CRES403GRS1**	**01EB403GR02**	126	618	149	354	58	154	6	63
	02CRES403GRS1	**02EB403GR02**	126	654	162	400	76	187	12,5	91
110	**100CRES110MGRS1**	**100B110MGR02**	100	572	125	308	58	146	6	43
	01CRES110MGRS1	**01EB110MGR02**	126	618	149	354	58	154	6	63
	02CRES110MGRS1	**02EB110MGR02**	126	654	162	400	76	187	12,5	91
4 7/16	**100CRES407GRS1**	**100B407GR02**	100	572	125	308	58	146	6	43
	01CRES407GRS1	**01EB407GR02**	126	618	149	354	58	154	6	63
	02CRES407GRS1	**02EB407GR02**	126	654	162	400	76	187	12,5	91
4 1/2	**100CRES408GRS1**	**100B408GR02**	100	572	125	308	58	146	6	43
	01CRES408GRS1	**01EB408GR02**	126	618	149	354	58	154	6	63
	02CRES408GRS1	**02EB408GR02**	126	654	162	400	76	187	12,5	91
115	**100CRES115MGRS1**	**100B115MGR02**	100	572	125	308	58	146	6	43
	01CRES115MGRS1	**01EB115MGR02**	126	618	149	354	58	154	6	63
	02CRES115MGRS1	**02EB115MGR02**	126	654	162	400	76	187	12,5	91
120	**100CRES120MGRS1**	**100B120MGR02**	126	618	149	354	58	154	6	59
	01CRES120MGRS1	**01EB120MGR02**	126	654	158	400	64	168	6	83
	02CRES120MGRS1	**02EB120MGR02**	152	696	177	442	76	209	12,5	124

1) Only the basic designations are shown. For housings with matched cartridge for labyrinth seals, contact SKF.
2) Reduced clearance bearings are standard specification for use with rod ends.
3) Two to six attachment bolts may be required depending on the application requirements.

8.2 Shoe type rod ends for split cylindrical roller bearings

d_a **125 – 160** mm

4 15/16 – 6 *in.*



Shaft diameter d_a	**Designations**[1] Housing incl. matched cartridge	Bearing[2]	**Dimensions** A_1[3]	H	H_1	L	L_a[3]	**Abutment dimensions** A_a	r_a	**Mass** Unit
mm/*in.*	–		mm							kg
125	**100CRES125MGRS1**	**100B125MGR02**	126	618	149	354	58	154	6	59
	01CRES125MGRS1	**01EB125MGR02**	126	654	158	400	64	168	6	83
	02CRES125MGRS1	**02EB125MGR02**	152	696	177	442	76	209	12,5	124
4 15/16	**100CRES415GRS1**	**100B415GR02**	126	618	149	354	58	154	6	59
	01CRES415GRS1	**01EB415GR02**	126	654	158	400	64	168	6	83
	02CRES415GRS1	**02EB415GR02**	152	696	177	442	76	209	12,5	124
5	**100CRES500GRS1**	**100B500GR02**	126	618	149	354	58	154	6	59
	01CRES500GRS1	**01EB500GR02**	126	654	158	400	64	168	6	83
	02CRES500GRS1	**02EB500GR02**	152	696	177	442	76	209	12,5	124
130	**100CRES130MGRS1**	**100B130MGR02**	126	618	149	354	58	154	6	59
	01CRES130MGRS1	**01EB130MGR02**	126	654	158	400	64	168	6	83
	02CRES130MGRS1	**02EB130MGR02**	152	696	177	442	76	209	12,5	124
5 3/16	**01CRES503GRS1**	**01EB503GR02**	152	696	177	442	76	187	9,5	98
	02CRES503GRS1	**02EB503GR02**	152	696	177	442	76	213	12,5	145
135	**01CRES135MGRS1**	**01EB135MGR02**	152	696	177	442	76	187	9,5	98
5 7/16	**100CRES507GRS1**	**100B507GR02**	126	654	158	400	64	168	6	78
	01CRES507GRS1	**01EB507GR02**	152	696	177	442	76	187	9,5	98
	02CRES507GRS1	**02EB507GR02**	152	696	177	442	76	213	12,5	145
5 1/2	**100CRES508GRS1**	**100B508GR02**	126	654	158	400	64	168	6	78
	01CRES508GRS1	**01EB508GR02**	152	696	177	442	76	187	9,5	98
	02CRES508GRS1	**02EB508GR02**	152	696	177	442	76	213	12,5	145
140	**100CRES140MGRS1**	**100B140MGR02**	126	654	158	400	64	168	6	78
	01CRES140MGRS1	**01EB140MGR02**	152	696	177	442	76	187	9,5	98
	02CRES140MGRS1	**02EB140MGR02**	152	696	177	442	76	213	12,5	145
145	**02CRES145MGRS1**	**02EB145MGR02**	152	696	177	442	76	213	12,5	145
150	**100CRES150MGRS1**	**100B150MGR02**	152	696	177	442	76	187	9,5	91
	01CRES150MGRS1	**01EB150MGR02**	152	696	177	442	76	193	9,5	107
	02CRES150MGRS1	**02EB150MGR02**	152	736	203	444	64	229	12,5	166

[1] Only the basic designations are shown. For housings with matched cartridge for labyrinth seals, contact SKF.
[2] Reduced clearance bearings are standard specification for use with rod ends.
[3] Two to six attachment bolts may be required depending on the application requirements.

Shaft diameter d_a	Designations[1] Housing incl. matched cartridge	Bearing[2]	Dimensions A_1[3]	H	H_1	L	L_a[3]	Abutment dimensions A_a	r_a	Mass Unit
mm/*in.*	–		mm							kg
5 15/16	**100CRES515GRS1**	**100B515GR02**	152	696	177	442	76	187	9,5	91
	01CRES515GRS1	**01EB515GR02**	152	696	177	442	76	193	9,5	107
	02CRES515GRS1	**02EB515GR02**	152	736	203	444	64	229	12,5	166
6	**100CRES600GRS1**	**100B600GR02**	152	696	177	442	76	187	9,5	91
	01CRES600GRS1	**01EB600GR02**	152	696	177	442	76	193	9,5	107
	02CRES600GRS1	**02EB600GR02**	152	736	203	444	64	229	12,5	166
155	**01CRES155MGRS1**	**01EB155MGR02**	152	696	177	442	76	193	9,5	107
	02CRES155MGRS1	**02EB155MGR02**	152	736	203	444	64	229	12,5	166
160	[4]	**01EB160MGR20**	152	696	177	442	76	193	9,5	107
	[4]	**02EB160MGR20**	152	736	203	444	64	229	12,5	166

[1] Only the basic designations are shown. For housings with matched cartridge for labyrinth seals, contact SKF.
[2] Reduced clearance bearings are standard specification for use with rod ends.
[3] Two to six attachment bolts may be required depending on the application requirements.
[4] For housing designations, refer to SKF

9 Designations

Designation system for bearings

100	B	408	EX	C3	ALF
1DT	B	130M		C2	

Bearing type and series

100	100 series split cylindrical roller bearing
01	01 series split cylindrical roller bearing
01E	01E series split cylindrical roller bearing
02	02 series split cylindrical roller bearing
02E	02E series split cylindrical roller bearing
03	03 series split cylindrical roller bearing
03E	03E series split cylindrical roller bearing
04	04 series split cylindrical roller bearing
1DT	Split tapered roller bearing

Part

B	Bearing

Size identification[1)]

For metric sizes, specify the bore diameter followed by "M":

35M	35 mm
to	
600M	600 mm

For inch sizes, specify the bore diameter as the whole number of inches followed by two digits representing the sixteenths of an inch:

103	1 3/16 in.
to	
2400	24 in.

Non-locating/Locating[2)]

EX	Non-locating bearing
GR	Locating bearing

Suffixes

AF	Axial expansion (float), preceded by the distance, e.g. 2AF for 2 mm axial expansion
AP	Air/grease purge points
AL(D)F	Aluminium cage with double flange (typically outer ring centred)
C2	Radial internal clearance smaller than Normal
C3	Radial internal clearance greater than Normal
C5	Radial internal clearance greater than C3
C	Special heat treatment for temperature stabilisation
CHAM	Special chamfer on the inner ring bore, followed by the size, e.g. CHAM 7 for 7 mm x 45°
EXILOG	Bearing with a locating outer ring and non-locating inner ring
FR	Full complement of rollers (no cage)
GM	Gunmetal/brass/bronze cage (when not standard)
GM(D)F	Gunmetal/brass/bronze cage with (double) flange (typically outer ring centred) (when not standard)
GROSL	Single lipped outer ring
OSO	Outer ring set out (particularly for large bearings where outer ring is usually retained in housing by radial screws)
XJR	Joint relief (to allow inner ring to be mounted in recess)

1) For split tapered roller bearings, only metric sizes 75 to 180 mm are applicable.
2) Split tapered roller bearings are only available as locating bearings. No suffix is required.

Designation system for cartridges for split cylindrical roller bearings

100	C	N	507	EX	TE
01	C		06	EX	

Bearing series

100	100 series split cylindrical roller bearing
01	01 or 01E series split cylindrical roller bearing
02	02 or 02E series split cylindrical roller bearing
03	03 series split cylindrical roller bearing
03E	03E series split cylindrical roller bearing

Part

C	Cartridge

Material

–	Grey cast iron
A	Aluminium
N	Ductile iron
S	Steel
SS	Stainless steel

Size identification

For cartridges with single groove seals or grease groove seals (whichever is standard according to the size) and metric sizes, specify the bearing bore diameter followed by "M":

40M	40 mm
to	
600M	600 mm

For cartridges with single groove seals or grease groove seals (whichever is standard according to the size) and inch sizes, specify the bearing bore diameter as the whole number of inches followed by two digits representing the sixteenths of an inch:

108	1 1/2 in.
to	
2400	24 in.

For cartridges with labyrinth seals, specify the number reference of the associated housing.

Non-locating/Locating

EX	Non-locating bearing
GR	Locating bearing

Suffixes

BOBP	Bolt-on end cover
BOBT	Bolt-on end cover with a thrust bearing
BP/BT/BPTL/BTTL	Refer to *Designation system for end covers*, **page 190**
IH	Inspection hole for measuring the position of the inner ring of the non-locating bearing once mounted
OB	Oversized bore: The cartridge end bore is larger than the bearing bore, followed by the end bore size, e.g. OB 65 M for 65 mm overbore.
OIL LUB	Oil lubricated
OTL	Oversized bore for triple labyrinth seal
SPM	Drilled for vibration sensor
TE	Drilled for temperature sensor

Designation system for cartridges for split tapered roller bearings

1DT	C	160	GR	150M
1DT	C	160	GR	65TL

Bearing series

1DT Split tapered roller bearing

Part

C Cartridge

Size identification: cartridge

Nominal cartridge size. Please refer to the product table, **page 104**.

Locating

GR Locating bearing

Size identification: end bore

For cartridges with grease groove seals, specify the bearing bore diameter followed by “M”:

75M 75 mm
to
180M 180 mm

For cartridges with labyrinth seals, this indicates the seal size for use with the cartridge, followed by “TL”.
Please refer to the product table, **page 104**.

Designation system for housings

	F	N	06	S1
100	H		415	DOUBLE BOSS

Prefix

100	100 series split cylindrical roller bearing (hanger housings, and matched cartridge and housing units only)
01	01 or 01E series split cylindrical roller bearing (hanger housings, and matched cartridge and housing units only)
02	02 or 02E series split cylindrical roller bearing (hanger housings, and matched cartridge and housing units only)

Housing type

CRES	Shoe type rod end housing including matched cartridge
CRET	"T" type rod end housing including matched cartridge
DF	Flanged housing with a square flange
F	Flanged housing with a round flange
H	Hanger housing
P	Plummer (pillow) block housing
PN	SD interchangeable plummer block housing
SAFC	SAF interchangeable plummer block housing
SAFQ	SAF interchangeable angled plummer block housing
SDC	SD interchangeable plummer block housing
SDQ	SD interchangeable angled plummer block housing
SNC	SN interchangeable plummer block housing
SNQ	SN interchangeable angled plummer block housing
TP	Push type take-up housing
TT	Tension type take-up housing

Material

–	Grey iron
A	Aluminium
N	Ductile iron
S	Cast steel or fabricated mild steel
SS	Stainless steel

Size identification

For plummer block, flanged, and take-up housing, specify the size from 01 to 95.

For SN, SD, and SAF interchangeable housings, specify the number reference of the housing it interchanges with, e.g. 3134 for an SD3134 housing, or 515 for an SN515 housing.

For hanger and rod end housings with metric sizes, specify the bore diameter followed by "M":

35M to **160M**	35 mm to 160 mm

For hanger and rod end housings with inch sizes, specify the bore diameter as the whole number of inches followed by two digits representing the sixteenths of an inch:

103 to **600**	1 3/16 in. to 6 in.

Suffixes

AP	Grease/air purge points for seals (hanger housings only)
BEM	Base ends machined, followed by machined length, e.g. BEM 500 mm
DOUBLE BOSS	Double boss (hanger housings only)
S1	Reduced swivel clearance between housing and cartridge
SLUB	Lubrication hole to spherical seat
TRIPLE BOSS	Triple boss (hanger housings only)

Designation system for end covers

BP	35M	
BP	103	
BT	140M	01
BT	115	02
BPTL	12	
BTTL	3	

Type of end cover

BP	End covers without thrust bearing, for cartridges with single seal grooves
BT	End covers with thrust bearing, for cartridges with single seal grooves
BPTL	End covers without thrust bearing, for cartridges with grooves for labyrinth seals
BTTL	End covers with thrust bearing, for cartridges with grooves for labyrinth seals

Size identification parameter

For end covers for cartridges with single groove seals specify any available bore size;
- bore diameter followed by "M" for metric sizes
- whole number of inches followed by two digits representing sixteenth of an inch for inch sizes

Examples

35M	35 mm
140M	140 mm
103	1 3/16 in.
115	1 15/16 in.
300	3 in.

For end covers for cartridges with labyrinth seals specify any available cartridge size designation.
End covers fit all cartridge variants with this size designation, e.g. BTTL3 could fit in either 01C3 or 02C3.

Examples

3	Cartridge size designation 3
12	Cartridge size designation 12

Bearing series reference

For end covers with thrust bearings, for cartridges with single groove seals.

01	01 or 01E series split cylindrical roller bearing
02	02 or 02E series split cylindrical roller bearing