

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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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**.

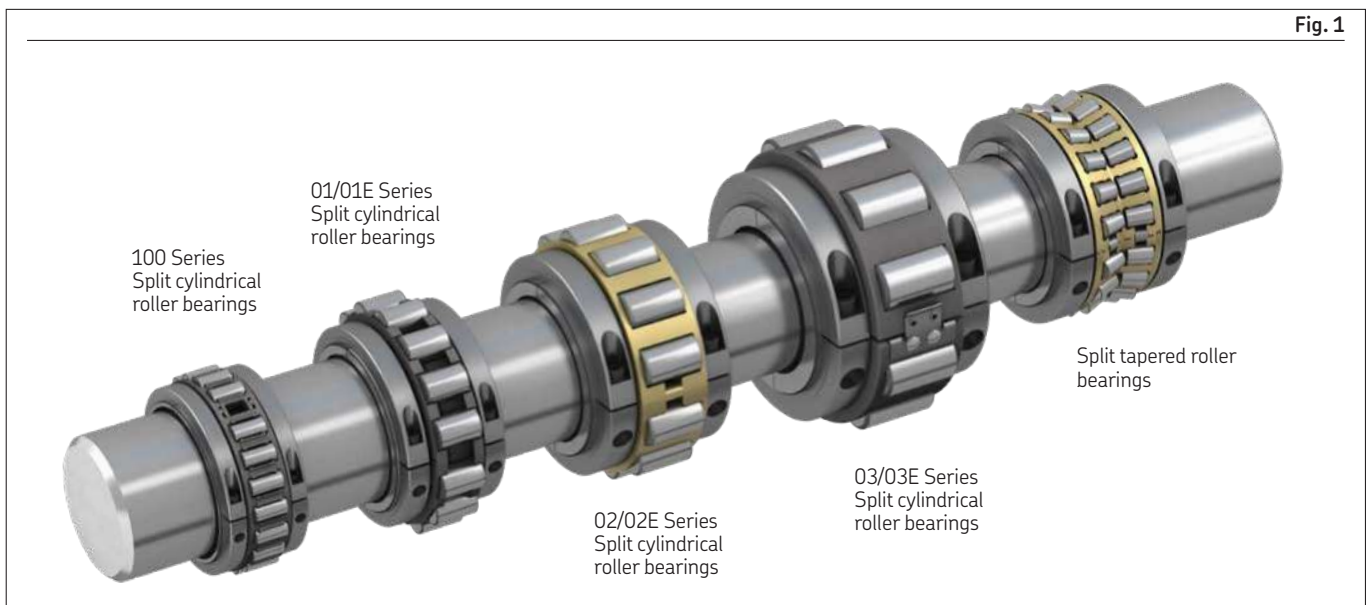


Fig. 1

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%.

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

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_L . 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**).

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:

$$P = \left[\sum_{i=1}^{i=n} P_i^{10/3} p_i \right]^{0.3}$$

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.

Life adjustment factor			
Reliability	Failure probability n	SKF rating life L_{nm}	Factor 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 F_a/F_r 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.

1 Overview, selection and application recommendations

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			Infrequent motion
	Permanent deformation acceptance			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 $0,25 \leq d_n [\text{mm}] / 1000 < 63$, $f_b = 1$
- For 01/01E, 02 and 03 series where $63 \leq d_n [\text{mm}] / 1000 \leq 300$, $f_b = 1,25$
- For 100 series where $0,25 \leq d_n [\text{mm}] / 1000 < 240$, $f_b = 1$
- 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.

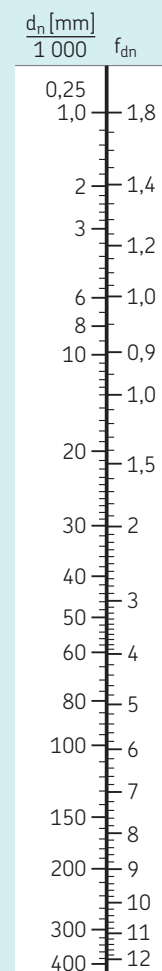
Requisite minimum load

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]

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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 $100\text{ }^{\circ}\text{C}$ ($210\text{ }^{\circ}\text{F}$).

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.

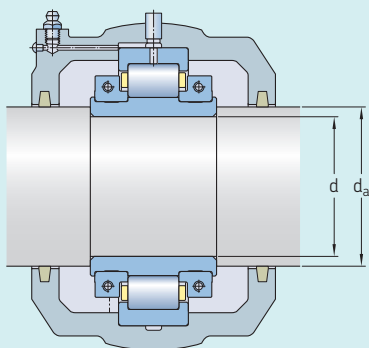
Spiral rings

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

Please contact SKF for more information and support.

Table 5

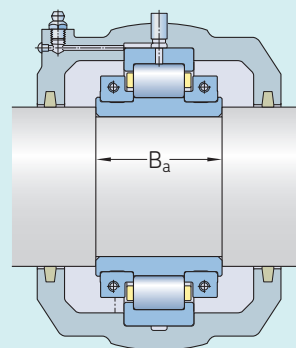
Shaft recess abutment dimensions



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

Table 6

Shaft tolerances on recess width and spacing between retaining rings



Width Nominal diameter B_a		Tolerance class	
$>$	$\leq$	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

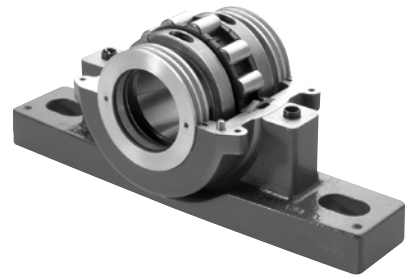


Fig. 16

Alignment feature

Seal remains parallel to the shaft

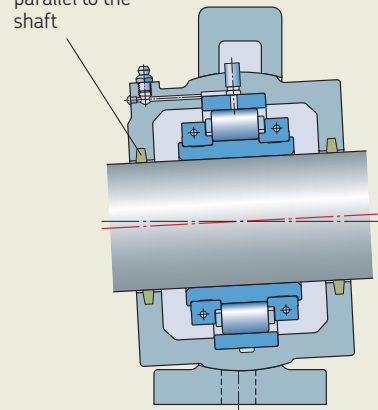
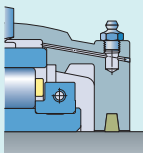
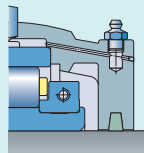
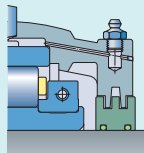
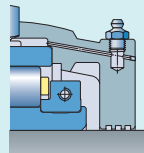
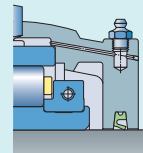
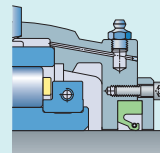


Table 7

1

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
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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	–	–	++	++	+	+

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

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)
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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

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 $d_a \leq 90 \text{ mm}$ (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 $dn = 20\,000 \text{ mm/min}$ (calculated using shaft size, not the bore of the thrust bearing)
 - the arrangement should only accommodate minimal axial loads

Fig. 17

Bulkhead sealing

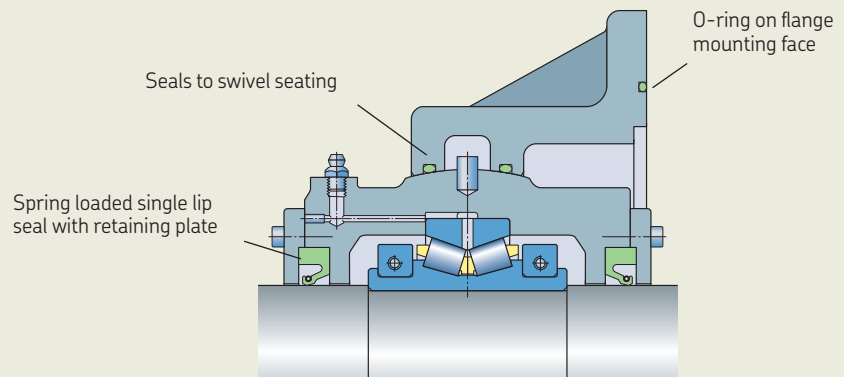
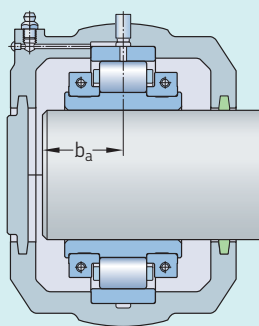


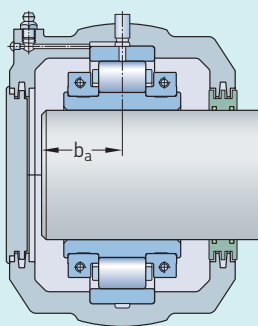
Table 8

1

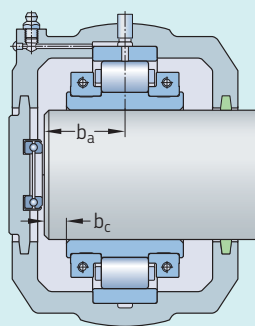
Permissible length of a shaft end with split cylindrical roller bearings



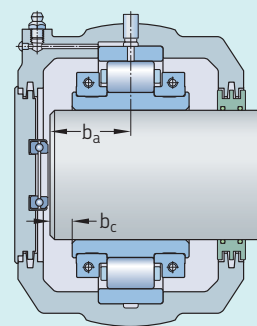
End cover without thrust bearing (designation suffix BP)



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 d_a	01 series bearings		02 series bearings	
	b_a	b_c	b_a	b_c
mm/in.	—		—	
$1 \frac{3}{16}$	27	2	—	—
$1 \frac{1}{4}$	27	2	—	—
35	27	2	—	—
$1 \frac{7}{16}$	27	2	—	—
$1 \frac{1}{2}$	27	2	—	—
40	27	2	—	—
$1 \frac{11}{16}$	29	1	—	—
$1 \frac{3}{4}$	29	1	—	—
45	29	1	—	—
$1 \frac{15}{16}$	29	1	35	1
50	29	1	35	1
2	29	1	35	1
55	30	2	—	—
$2 \frac{3}{16}$	30	2	38	2
$2 \frac{1}{4}$	30	2	38	2
60	30	2	38	2
$2 \frac{7}{16}$	30	2	38	2
$2 \frac{1}{2}$	30	2	38	2
65	30	2	38	2
$2 \frac{11}{16}$	35	4	41	0
$2 \frac{3}{4}$	35	4	41	0
70	35	4	41	0
$2 \frac{15}{16}$	35	4	41	0
75	35	4	41	0
3	35	4	41	0
80	40	4	48	3
$3 \frac{3}{16}$	40	4	48	3
$3 \frac{1}{4}$	40	4	48	3
85	40	4	48	3
$3 \frac{7}{16}$	40	4	48	3
$3 \frac{1}{2}$	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⁾ mm²/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	-	○	○	+	+	+	○	Wide applications greases
180 (356)	300	-	++	○	++	+	+	○	
180 (356)	300	+	○	○	+	+	+	++	
250 (482)	300	○	○	-	+	+	+	+	
170 (338)	300	○	○	+	-	○	+	+	
180 (356)	1600	--	○	-	--	-	+	○	Low temperatures
170 (338)	300	+	--	+	-	+	+	++	
170 (338)	300	++	--	+	-	+	+	++	
300 (572)	300	+	○	++	+	++	++	++	
180 (356)	300	++	+	○	+	+	+	++	
180 (356)	300	++	○	○	+	+	+	++	High loads
220 (428)	300	++	○	++	+	++	++	++	
300 (572)	300	++	○	++	+	++	++	++	
240 (464)	500	-	+	-	--	++	++	○	
260 (500)	500	○	○	-	--	+	++	+	
300 (572)	300	++	○	-	○	-	+	○	High temperatures
280 (536)	500	+	○	++	+	+	++	+	
250 (482)	300	--	○	-	--	○	+	○	
300 (572)	300	++	○	++	○	+	++	++	
300 (572)	300	++	○	-	○	-	+	○	
									Food grade

+ = Recommended ○ = Suitable - = Not suitable

skf.com/lubeselect

1 Overview, selection and application recommendations

	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 $\leq 80\text{ °C}$ (175 °F), the initial fill depends on the operating speed of the bearing.
- For operating temperatures $> 80\text{ °C}$ (175 °F), use a 25% initial fill, regardless of the speed of the bearing.



Table 12

1

Initial grease fill – split cylindrical roller bearings¹⁾

Shaft diam- eter 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	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)

Initial grease fill – split cylindrical roller bearings¹⁾

Shaft diam- eter d _a	Designations Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Speed		Initial fill		Speed		Initial fill		Speed		Initial fill		Speed		Initial fill	
				<	100%	>	≤	<	75%	>	≤	<	50%	>	≤	<	33%	>	25%
mm/in.				r/min	kg	r/min		r/min	kg	r/min		r/min	kg	r/min		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)

Initial grease fill – split cylindrical roller bearings¹⁾

Shaft diam- eter 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	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							
	02EB115M	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)

Initial grease fill – split cylindrical roller bearings¹⁾

Shaft diam- eter d _a	Designations Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Speed		Initial fill		Speed		Initial fill		Speed		Initial fill		Speed		Initial fill	
				<	100%	>	≤	<	75%	>	≤	<	50%	>	≤	<	33%	>	25%
mm/in.				r/min	kg	r/min	kg	r/min	kg	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	1312	0,34	1312	0,26			
	01EB150M	01C150M	01C10	328	0,9	328	656	0,68	656	984	0,45	984	1312	0,3	1312	0,23			
	02EB150M	02C150M	02C31	328	1,4	328	656	1,05	656	984	0,7	984	1312	0,46	1312	0,35			
	03B150M	03C150M	03C58	328	2,7	328	656	2,03	656	984	1,35	984	1312	0,89	1312	0,68			
5 ¹⁵ / ₁₆	100B515	100C515	100C9	328	1,02	328	656	0,77	656	984	0,51	984	1312	0,34	1312	0,26			
	01EB515	01C515	01C10	328	0,9	328	656	0,68	656	984	0,45	984	1312	0,3	1312	0,23			
	02EB515	02C515	02C31	328	1,4	328	656	1,05	656	984	0,7	984	1312	0,46	1312	0,35			
	03B515	03C515	03C58	328	2,7	328	656	2,03	656	984	1,35	984	1312	0,89	1312	0,68			
6	100B508	100C508	100C9	328	1,02	328	656	0,77	656	984	0,51	984	1312	0,34	1312	0,26			
	01EB600	01C600	01C10	328	0,9	328	656	0,68	656	984	0,45	984	1312	0,3	1312	0,23			
	02EB600	02C600	02C31	328	1,4	328	656	1,05	656	984	0,7	984	1312	0,46	1312	0,35			
	03B600	03C600	03C58	328	2,7	328	656	2,03	656	984	1,35	984	1312	0,89	1312	0,68			
155	01EB155M	01C155M	01C10	328	0,9	328	656	0,68	656	984	0,45	984	1312	0,3	1312	0,23			
	02EB155M	02C155M	02C31	328	1,4	328	656	1,05	656	984	0,7	984	1312	0,46	1312	0,35			
160	01EB160MEX10	01C160MEX14	01C10EX10	328	0,9	328	656	0,68	656	984	0,45	984	1312	0,3	1312	0,23			
	01EB160MGR10	01C160MGR10	01C10GR10	328	0,9	328	656	0,68	656	984	0,45	984	1312	0,3	1312	0,23			
	01EB160M	01C160M	01C11	303	1	303	606	0,75	606	909	0,5	909	1211	0,33	1211	0,25			
	02EB160MEX10	02C160MEX10	02C31EX10	328	1,4	328	656	1,05	656	984	0,7	984	1312	0,46	1312	0,35			
	02EB160MGR10	02C160MGR10	02C31GR10	328	1,4	328	656	1,05	656	984	0,7	984	1312	0,46	1312	0,35			
	02EB160M	02C160M	02C32	303	1,4	303	606	1,05	606	909	0,7	909	1211	0,46	1211	0,35			
	03B160M	03C160M	03C59	303	3,6	303	606	2,7	606	909	1,8	909	1211	1,19	1211	0,9			
6 ⁷ / ₁₆	01EB607	01C607	01C11	303	1	303	606	0,75	606	909	0,5	909	1211	0,33	1211	0,25			
	02EB607	02C607	02C32	303	1,4	303	606	1,05	606	909	0,7	909	1211	0,46	1211	0,35			
	03B607	03C607	03C59	303	3,6	303	606	2,7	606	909	1,8	909	1211	1,19	1211	0,9			
6 ¹ / ₂	01EB608	01C608	01C11	303	1	303	606	0,75	606	909	0,5	909	1211	0,33	1211	0,25			
	02EB608	02C608	02C32	303	1,4	303	606	1,05	606	909	0,7	909	1211	0,46	1211	0,35			
	03B608	03C608	03C59	303	3,6	303	606	2,7	606	909	1,8	909	1211	1,19	1211	0,9			
170	01EB170MEX13	01C170MEX13	01C11EX10	303	1	303	606	0,75	606	909	0,5	909	1211	0,33	1211	0,25			
	01EB170MGR14	01C170MGR15	01C11GR10	303	1	303	606	0,75	606	909	0,5	909	1211	0,33	1211	0,25			
	01EB170M	01C170M	01C12	281	1,2	281	562	0,9	562	844	0,6	844	1125	0,4	1125	0,3			
	02EB170M	02C170M	02C32EX10	303	1,4	303	606	1,05	606	909	0,7	909	1211	0,46	1211	0,35			
	02EB170M	02C170M	02C32GR10	303	1,4	303	606	1,05	606	909	0,7	909	1211	0,46	1211	0,35			
	03B170M	03C170M	03C59	303	3,6	303	606	2,7	606	909	1,8	909	1211	1,19	1211	0,9			
175	01EB175M	01C175M	01C12	281	1,2	281	562	0,9	562	844	0,6	844	1125	0,4	1125	0,3			
	02EB175M	02C175M	02C33	303	2	303	606	1,5	606	909	1	909	1211	0,66	1211	0,5			
6 ¹⁵ / ₁₆	01EB615	01C615	01C12	281	1,2	281	562	0,9	562	844	0,6	844	1125	0,4	1125	0,3			
	02EB615	02C615	02C33	303	2	303	606	1,5	606	909	1	909	1211	0,66	1211	0,5			
	03B615	03C615	03C60	281	4,2	281	562	3,15	562	844	2,1	844	1125	1,39	1125	1,05			
7	01EB700	01C700	01C12	281	1,2	281	562	0,9	562	844	0,6	844	1125	0,4	1125	0,3			
	02EB700	02C700	02C33	303	2	303	606	1,5	606	909	1	909	1211	0,66	1211	0,5			
	03B700	03C700	03C60	281	4,2	281	562	3,15	562	844	2,1	844	1125	1,39	1125	1,05			
180	01EB180M	01C180M	01C12	281	1,2	281	562	0,9	562	844	0,6	844	1125	0,4	1125	0,3			
	02EB180M	02C180M	02C33	303	2	303	606	1,5	606	909	1	909	1211	0,66	1211	0,5			
	03B180M	03C180M	03C60	281	4,2	281	562	3,15	562	844	2,1	844	1125	1,39	1125	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

1

Initial grease fill – split cylindrical roller bearings¹⁾

Shaft diam- eter d _a	Designations Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Speed		Initial fill		Speed		Initial fill		Speed		Initial fill		Speed		Initial fill	
				<	100%	>	≤	>	≤	>	≤	>	≤	>	≤	>	≤	>	≤
mm/in.				r/min	kg	r/min	kg	r/min	kg	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

Initial grease fill – split cylindrical roller bearings¹⁾

Shaft diam- eter d _a	Designations			Speed		Initial fill	Speed	Initial fill		Speed	Initial fill		Speed	Initial fill		Speed	Initial fill
	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	<	100%	>	≤	>	≤	>	≤	>	≤	>	≤	>	≤
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

1

Initial grease fill – split cylindrical roller bearings¹⁾

Shaft diam- eter 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	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 bearings¹⁾

Shaft diameter d_a mm	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%	>	≤	>	≤	>	≤	>	≤	>	≤	>	≤	>	
				r/min	kg	r/min	kg	r/min	kg	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

1

Relubrication quantity – split cylindrical roller bearings

Shaft diameter	Designations Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Relubrication quantity ¹⁾
d_a				
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	01C115	01C2	4
	02EB115	02C115	02C3	4
50	01EB50M	01C50M	01C2	4
	02EB50M	02C50M	02C3	4
2	01EB200	01C200	01C2	4
	02EB200	02C200	02C3	4
55	01EB55M	01C55M	01C3	4
2 3/16	01EB203	01C203	01C3	4
	02EB203	02C203	02C4	4
2 1/4	01EB204	01C204	01C3	4
	02EB204	02C204	02C4	4
60	01EB60M	01C60M	01C3	4
	02EB60M	02C60M	02C4	4
2 7/16	01EB207	01C207	01C3	4
	02EB207	02C207	02C4	4
2 1/2	01EB208	01C208	01C3	4
	02EB208	02C208	02C4	4
65	01EB65M	01C65M	01C3	4
	02EB65M	02C65M	02C4	4
2 11/16	01EB211	01C211	01C4	4
	02EB211	02C211	02C5	4
2 3/4	01EB212	01C212	01C4	4
	02EB212	02C212	02C5	4

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

Relubrication quantity – split cylindrical roller bearings

Shaft diameter	Designations Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Relubrication quantity ¹⁾
d_a				
mm/in.	–			ml
70	01EB70M 02EB70M	01C70M 02C70M	01C4 02C5	4 4
2 15/16	100B215 01EB215 02EB215	100C215 01C215 02C215	100C3 01C4 02C5	12) 4 4
75	100B75M 01EB75M 02EB75M	100C75M 01C75M 02C75M	100C3 01C4 02C5	12) 4 4
3	100B300 01EB300 02EB300	100C300 01C300 02C300	100C3 01C4 02C5	12) 4 4
80	01EB80M 02EB80M	01C80M 02C80M	01C5 02C6	4 4
3 3/16	01EB303 02EB303	01C303 02C303	01C5 02C6	4 4
3 1/4	01EB304 02EB304	01C304 02C304	01C5 02C6	4 4
85	100B85M 01EB85M 02EB85M	100C85M 01C85M 02C85M	100C4 01C5 02C6	12) 4 4
3 7/16	100B307 01EB307 02EB307	100C307 01C307 02C307	100C4 01C5 02C6	12) 4 4
3 1/2	01EB308 02EB308	01C308 02C308	01C5 02C6	4 4
90	01EB90M 02EB90M	01C90M 02C90M	01C5 02C6	4 4
3 11/16	01EB311 02EB311	01C311 02C311	01C6 02C7	4 4
95	01EB95M	01C95M	01C6	4
3 3/4	01EB312 02EB312	01C312 02C312	01C6 02C7	4 4
100	100B100M 01EB100M 02EB100M 03B100M	100C100M 01C100M 02C100M 03C100M	100C5 01C6 02C7 03C54	2 4 4 4
3 15/16	100B315 01EB315 02EB315 03B315	100C315 01C315 02C315 03C315	100C5 01C6 02C7 03C54	2 4 4 4
4	100B400 01EB400 02EB400 03B400	100C400 01C400 02C400 03C400	100C5 01C6 02C7 03C54	2 4 4 4
105	01EB105M 02EB105M	01C105M 02C105M	01C6 02C7	4 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).

Relubrication quantity – split cylindrical roller bearings

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

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

Relubrication quantity – split cylindrical roller bearings

Shaft diameter	Designations Bearing	Cartridge with felt seals	Cartridge for labyrinth seals	Relubrication quantity ¹⁾
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.

Relubrication quantity – split cylindrical roller bearings

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

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

2) Contact SKF.

Relubrication quantity – split cylindrical roller bearings

Shaft diameter d_a mm/in.	Designations Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals	Relubrication quantity ¹⁾ 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.

Relubrication quantity – split cylindrical roller bearings

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

Frequencies – split cylindrical roller bearings

Shaft diameter	Designation Bearing	Part frequencies, per shaft revolution			Rollers	Roller details		Diameter
		Outer ring	Inner ring	Cage		PCD	Qty	
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 3/4	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

Frequencies – split cylindrical roller bearings

Shaft diameter	Designation Bearing	Part frequencies, per shaft revolution			Rollers	Roller details		Diameter
		Outer ring	Inner ring	Cage		PCD	Qty	
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

Frequencies – split cylindrical roller bearings

Shaft diameter	Designation Bearing	Part frequencies, per shaft revolution			Rollers	Roller details		Diameter
		Outer ring	Inner ring	Cage		PCD	Qty	
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

Frequencies – split cylindrical roller bearings

Shaft diameter	Designation Bearing	Part frequencies, per shaft revolution			Rollers	Roller details		Diameter
		Outer ring	Inner ring	Cage		PCD	Qty	
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

Frequencies – split cylindrical roller bearings

Shaft diameter	Designation Bearing	Part frequencies, per shaft revolution			Rollers	Roller details		Diameter
		Outer ring	Inner ring	Cage		PCD	Qty	
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			Rollers	Roller details		Diameter
		Outer ring	Inner ring	Cage		PCD	Qty	
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			Rollers	Roller details		Diameter	Contact angle
		Outer ring	Inner ring	Cage		PCD	Qty		
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

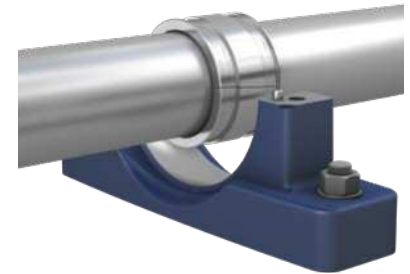


Fig. 21

Tightening the clamping ring screws

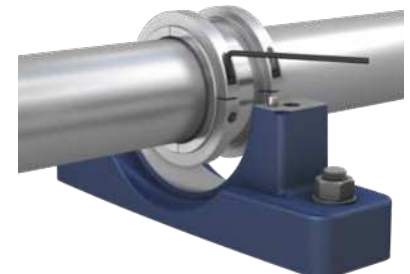
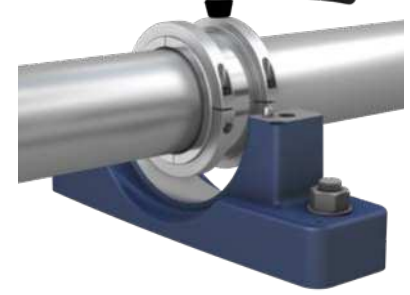


Fig. 22

Setting the clamping ring and inner ring



1 Overview, selection and application recommendations

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 inner ring (b). Sometimes, the rollers assume an incorrect position during assembly (c). It is important to correct the position of these rollers before assembling 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. Push the "U" clip fully so that the clip touches the outside diameter of the cage.

Fig. 23

Mounting the roller and cage assembly

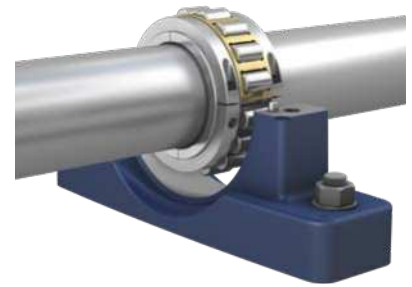
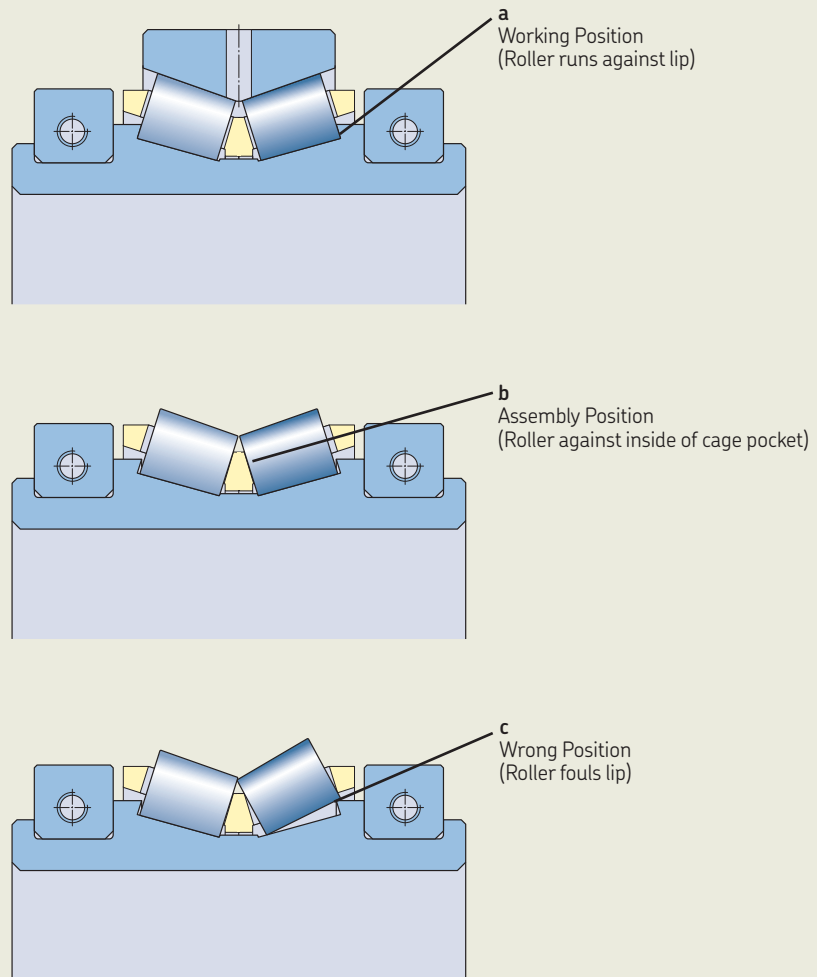


Fig. 24

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

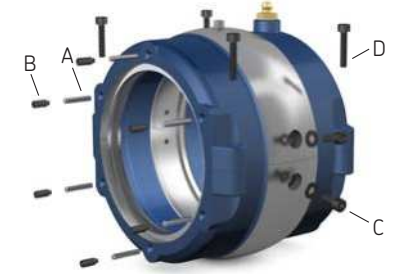
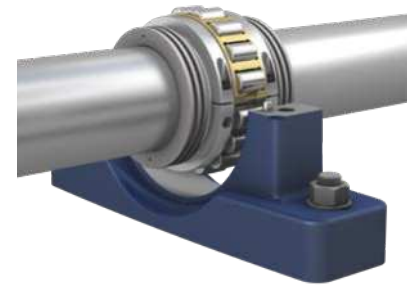


Fig. 26

Installing the seals



1 Overview, selection and application recommendations

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

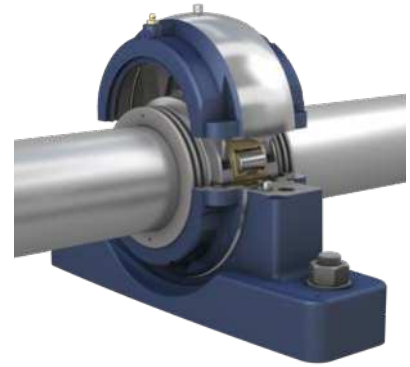
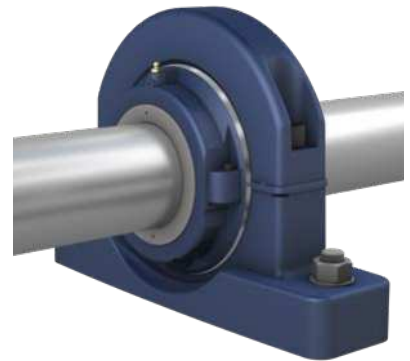


Fig. 28

Mounting the housing cap



1 Overview, selection and application recommendations

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
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

1

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	–	–	–	–

1 Overview, selection and application recommendations

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						Cartridge radial screw		
				Clamping ring screw	Key size (A/F)	Torque	Cartridge joint screw	Key size (A/F)	Torque	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 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.

cont. table 18

1

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	–	–	–	–

1 Overview, selection and application recommendations

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

1

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	–	–	–	–	–	–	–	–

1 Overview, selection and application recommendations

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.

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	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	TP31³⁾	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	TP31³⁾	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	TP31³⁾	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	TP31³⁾	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	TP31³⁾	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	–	–	–	–
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	–	–	–	–	–	–	–	–

1 Overview, selection and application recommendations

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
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) 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) 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) 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) 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

1

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	Designation	Screw size	Key size (A/F)	Torque	Designation	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	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	–	–	–	–	–	–	–	–

1 Overview, selection and application recommendations

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

Shaft diameter	Designation Bearing	Cartridge with felt / grease groove 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
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

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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	Designation	Screw size	Key size (A/F)	Torque	Designation	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	–	–	–	–	–	–	–	–

1 Overview, selection and application recommendations

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

Shaft diameter	Designation Bearing	Cartridge with felt / grease groove 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
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

1

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	Designation	Screw size	Key size (A/F)	Torque	Designation	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

1

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

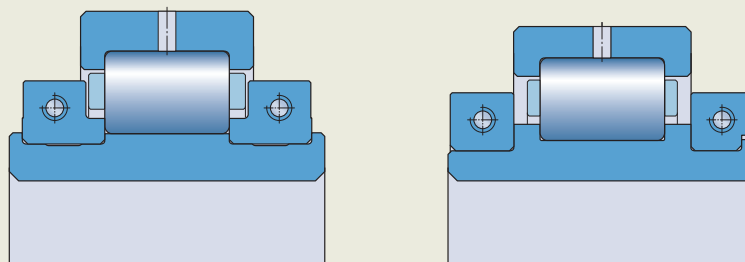
- have a split outer ring with integral flanges
- have a split inner ring clamped to the shaft with clamping rings
- have a split roller and cage assembly
- can withstand both radial and axial loads
- provide axial location
- are also known as fixed type bearings
- are identified by the designation suffix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

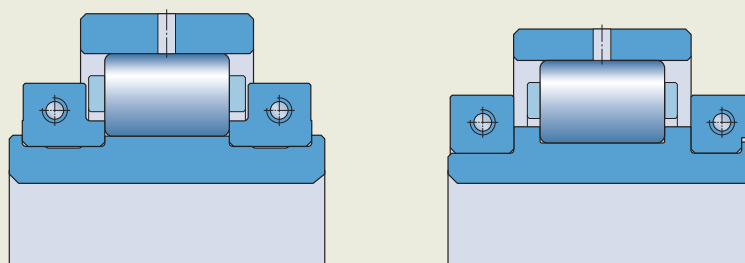


D design

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		Non-locating bearings in the	
	Locating bearings in the D design	C design	D design	C design
–	mm/in.			
100	all sizes	–	all sizes	–
01/01E	$\leq 300 / 12$	$> 300 / 12$	$\leq 300 / 12$	$> 300 / 12$
02/02E	$\leq 300 / 12$	$> 300 / 12$	$\leq 300 / 12$	$> 300 / 12$
03/03E	$\leq 155 / 6$	$> 155 / 6$	$\leq 155 / 6$	$> 155 / 6$

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 $d > 600 \text{ mm}$ (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 $100 \text{ }^{\circ}\text{C}$ ($210 \text{ }^{\circ}\text{F}$) provided the difference between the shaft and housing temperature is not more than $40 \text{ }^{\circ}\text{C}$
- 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 $d \leq 150 \text{ mm}$ or 6 in.	Standard for $d > 150 \text{ mm}$ or 6 in.	–	–
01, 02, 03/03E	–	Optional	–	Standard
01E	–	Standard for $d > 105 \text{ mm}$ or 4 in.	Standard for $d \leq 105 \text{ mm}$ or 4 in.	–
02E	–	Standard for $d > 150 \text{ mm}$ 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 maximum axial load of $F_a \leq 0,4 F_r$	
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

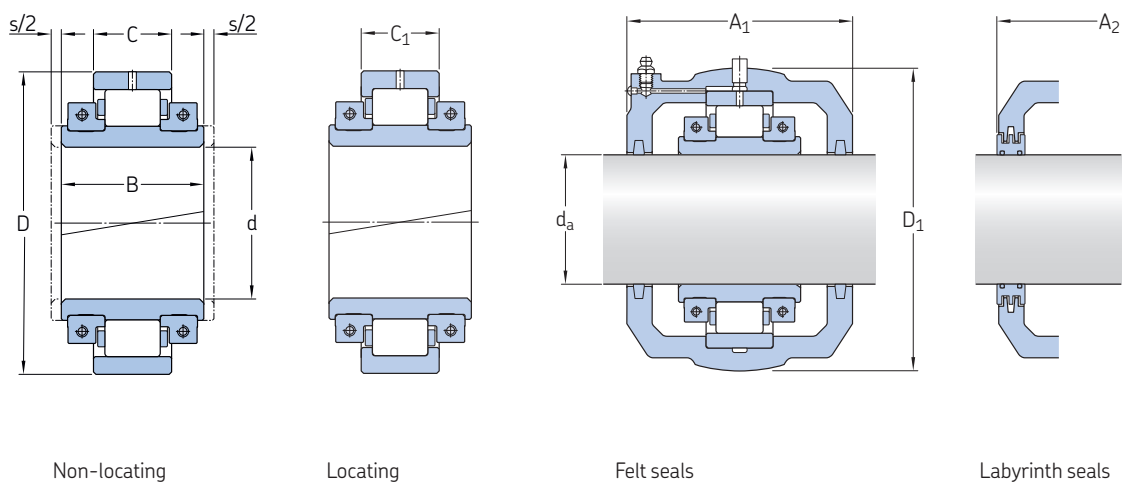
Dynamic factor

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.



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	55,7	25,4	25,4	4	117,48	98	98
	107,95	67,5	35	35	5	134,94	114	114
50	98,42	55,7	25,4	25,4	4	117,48	98	98
	107,95	67,5	35	35	5	134,94	114	114
2	98,42	55,7	25,4	25,4	4	117,48	98	98
	107,95	67,5	35	35	5	134,94	114	114
55	114,3	55,7	27	27	4,5	134,94	104	104
2 3/16	114,3	55,7	27	27	4,5	134,94	104	104
	127	72,3	38,9	38,9	5,5	157,16	126	126
2 1/4	114,3	55,7	27	27	4,5	134,94	104	104
	127	72,3	38,9	38,9	5,5	157,16	126	126
60	114,3	55,7	27	27	4,5	134,94	104	104
	127	72,3	38,9	38,9	5,5	157,16	126	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.

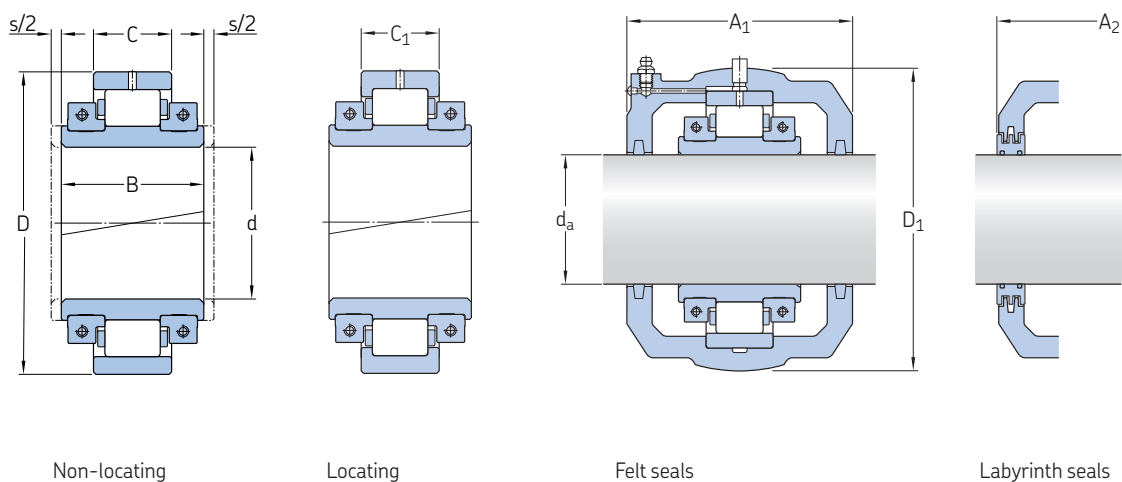
²⁾ Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

Shaft diameter	Load ratings			Limiting speed	Mass Bearing	Cartridge	Designations ²⁾		
d_a	dynamic C	static C_0	axial C_a				Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
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.



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.

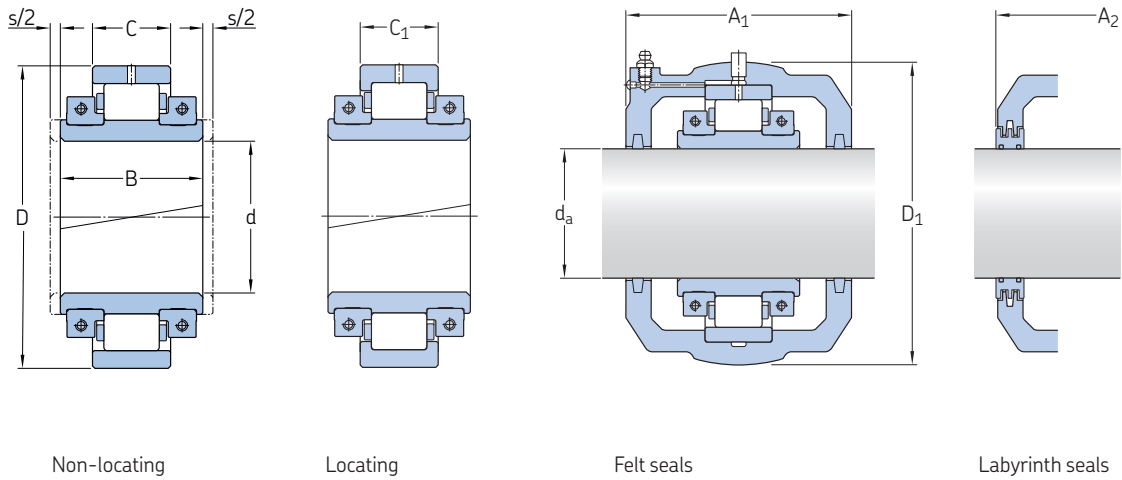
²⁾ Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

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

2.1 Split cylindrical roller bearings and cartridges

d_a 85 – 100 mm

3 7/16 – 4 in.



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.

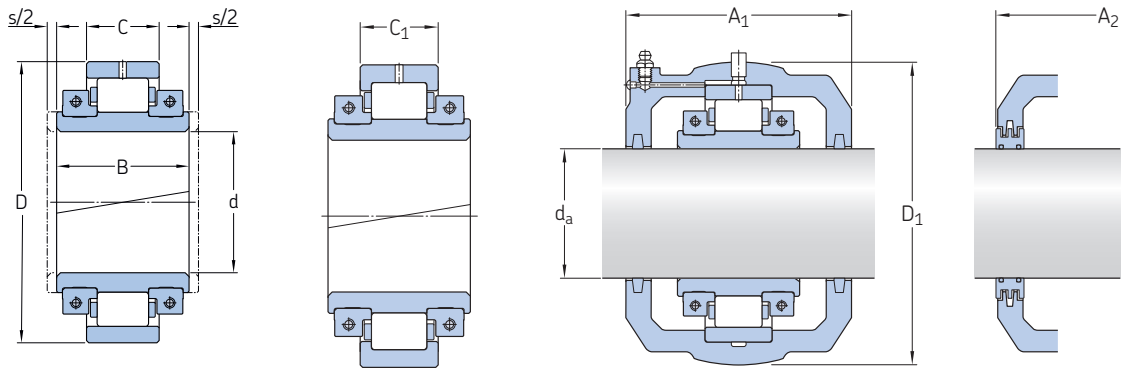
²⁾ Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

Shaft diameter	Load ratings			Limiting speed	Mass Bearing	Cartridge	Designations ²⁾		
	dynamic	static	axial				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	174,62 193,68	81 92,1	45,3 51,6	45,3 51,6	7 8	203,2 231,78	134 146	134 146
4 3/16	203,2 228,6	84,9 100	46,9 57,2	46,9 57,2	7 9	231,78 266,7	142 162	142 162
110	174,62 203,2 228,6 266,7	80 84,9 100 147	45,3 46,9 57,2 87,3	45,3 46,9 57,2 87,3	7 7 9 11	203,2 231,78 266,7 323,85	134 142 162 210	134 142 162 222
4 7/16	174,62 203,2 228,6 266,7	80 84,9 100 147	45,3 46,9 57,2 87,3	45,3 46,9 57,2 87,3	7 7 9 11	203,2 231,78 266,7 323,85	134 142 162 210	134 142 162 222
4 1/2	174,62 203,2 228,6 266,7	80 84,9 100 147	45,3 46,9 57,2 87,3	45,3 46,9 57,2 87,3	7 7 9 11	203,2 231,78 266,7 323,85	134 142 162 210	134 142 162 222
115	174,62 203,2 228,6	80 84,9 100	45,3 46,9 57,2	45,3 46,9 57,2	7 7 9	203,2 231,78 266,7	134 142 162	134 142 162
120	203,2 222,25 254 266,7	85 89,7 114,3 147	46,9 54 63,5 87,3	46,9 54 63,5 87,3	7 7 10 11	231,78 266,7 295,28 323,85	142 156 184 210	142 156 184 222
125	203,2 222,25 254	85 89,7 114,3	46,9 54 63,5	46,9 54 63,5	7 7 10	231,78 266,7 295,28	142 156 184	142 156 184

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.

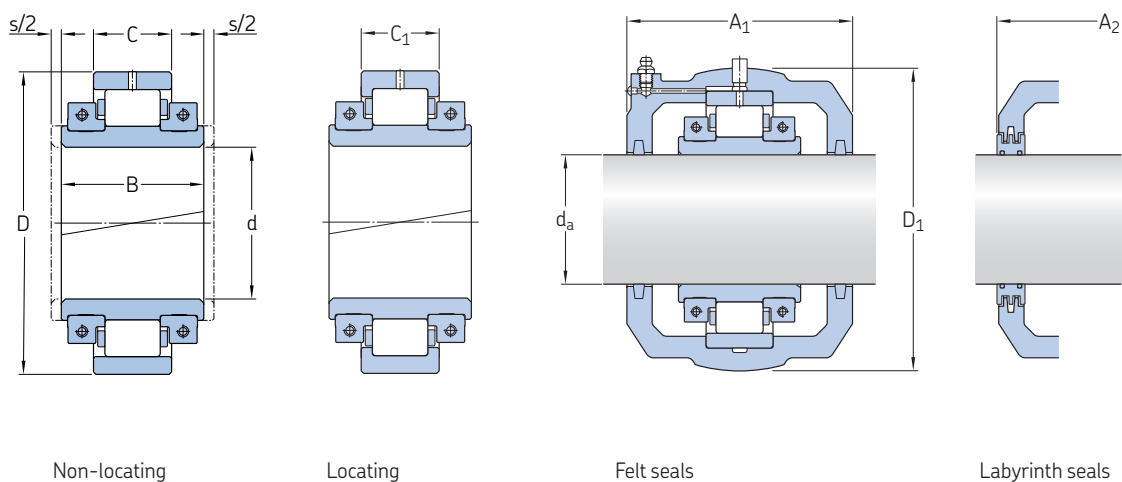
²⁾ Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

Shaft diameter	Load ratings			Limiting speed	Mass Bearing	Cartridge	Designations ²⁾		
	dynamic	static	axial				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.



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

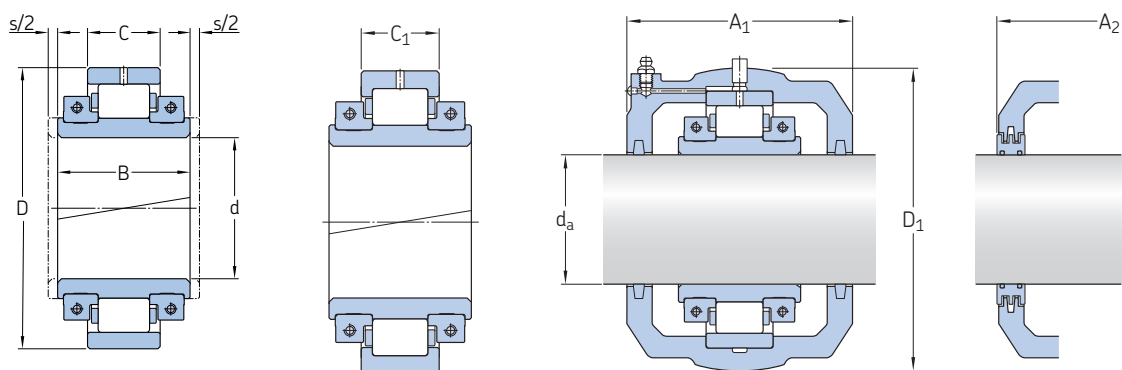
¹) "s" is the total permissible axial displacement from one extreme position to the other. "s/2" is the permissible displacement from the central position.

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 Bearing	Cartridge	Designations ²⁾		
	dynamic	static	axial				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
 $5\frac{15}{16}$ – $6\frac{1}{2}$ 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
$5\frac{15}{16}$	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
$6\frac{7}{16}$	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
$6\frac{1}{2}$	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**.

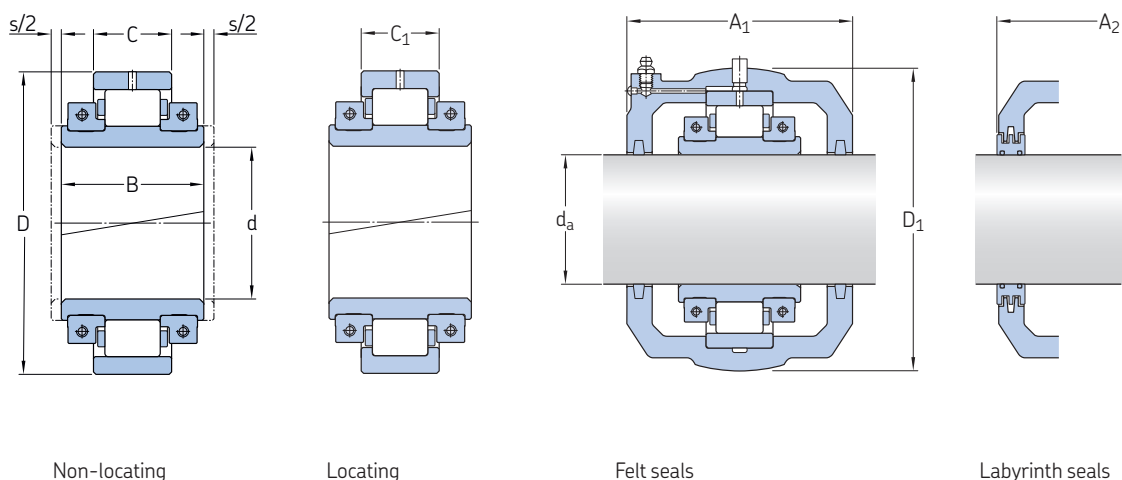
³⁾ Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

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	397 511 732 994	606 767 1 017 1 213	31,4 40,3 70,9 69,4	2 060 1 450 1 320 1 220	10,5 16,5 29 57	19,5 24,5 39 70	100B150M 01EB150M 02EB150M 03B150M	100C150M 01C150M 02C150M 03C150M	100C9 01C10 02C31 03C58
5 15/16	397 511 732 994	606 767 1 017 1 213	31,4 40,3 70,9 69,4	2 060 1 450 1 320 1 220	10,5 16,5 29 57	19,5 24,5 39 70	100B515 01EB515 02EB515 03B515	100C515 01C515 02C515 03C515	100C9 01C10 02C31 03C58
6	397 511 732 994	606 767 1 017 1 213	31,4 40,3 70,9 69,4	2 060 1 450 1 320 1 220	10,5 16,5 29 57	19,5 24,5 39 70	100B600 01EB600 02EB600 03B600	100C600 01C600 02C600 03C600	100C9 01C10 02C31 03C58
155	511 732	767 1 017	40,3 70,9	1 450 1 320	16,5 29	24,5 39	01EB155M 02EB155M	01C155M 02C155M	01C10 02C31
160	511 511 511 732 732 732 1 156	767 767 767 1 017 1 017 1 017 1 564	– 40,3 40,3 – 70,9 70,9 79,2	1 450 1 450 1 320 1 320 1 320 1 200 1 110	16,5 16,5 21 29 29 39 72	24,5 24,5 30 39 39 56 81	01EB160MEX10³⁾ 01EB160MGR10³⁾ 01EB160M 02EB160MEX10³⁾ 02EB160MGR10³⁾ 02EB160M 03B160M	01C160MEX14³⁾ 01C160MGR10³⁾ 01C160M 02C160MEX10³⁾ 02C160MGR10³⁾ 02C160M 03C160M	01C10EX10³⁾ 01C10GR10³⁾ 01C11 02C31EX10³⁾ 02C31GR10³⁾ 02C32 03C59
6 7/16	594 887 1 156	863 1 262 1 564	56,5 71,2 79,2	1 320 1 200 1 110	21 39 72	30 56 81	01EB607 02EB607 03B607	01C607 02C607 03C607	01C11 02C32 03C59
6 1/2	594 887 1 156	863 1 262 1 564	56,5 71,2 79,2	1 320 1 200 1 110	21 39 72	30 56 81	01EB608 02EB608 03B608	01C608 02C608 03C608	01C11 02C32 03C59

2.1 Split cylindrical roller bearings and cartridges

d_a 170 – 200 mm

6 ¹⁵/₁₆ – 7 ¹⁵/₁₆ in.



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.

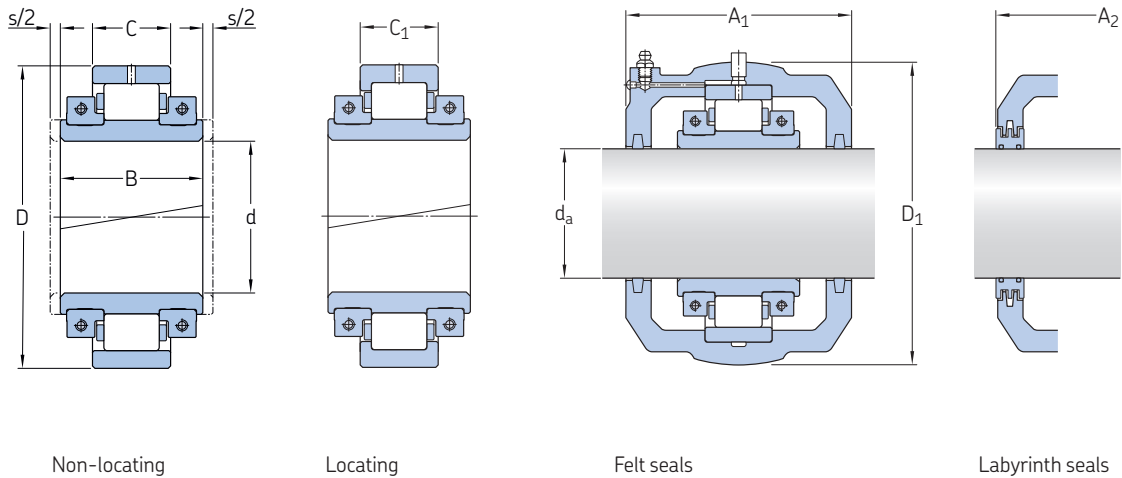
⁴⁾ Contact SKF.

Shaft diameter	Load ratings			Limiting speed	Mass Bearing	Cartridge	Designations ²⁾		
d _a	dynamic	static	axial				Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
	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.



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

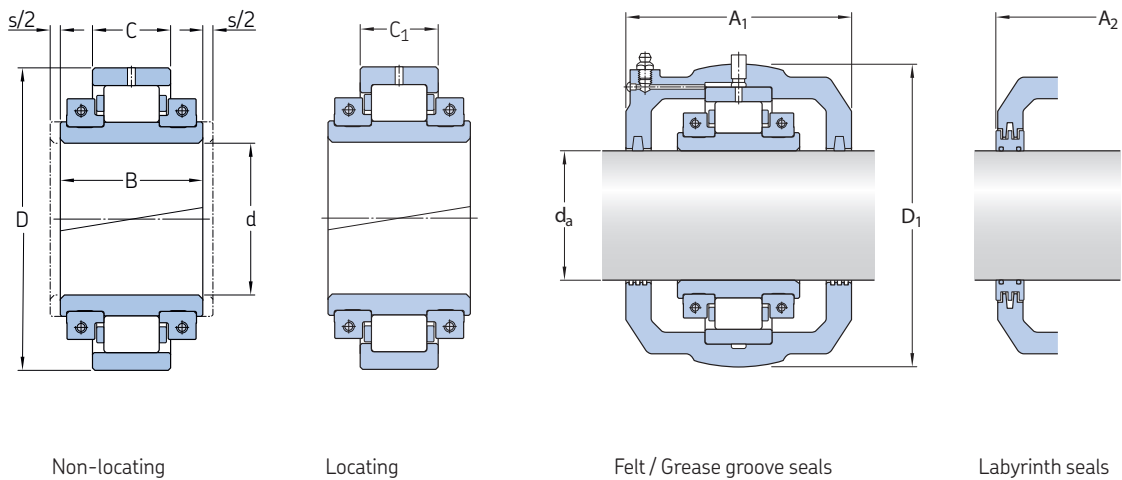
⁴⁾ Contact SKF.

Shaft diameter	Load ratings			Limiting speed	Mass Bearing	Cartridge	Designations ²⁾		
	dynamic	static	axial				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	01EB260MEX16³⁾	01C260MEX15³⁾	01C15EX15³⁾
	804	1 367	96,6	820	40	58	01EB260MGR15³⁾	01C260MGR12³⁾	01C15GR13³⁾
	917	1 560	127	730	50	70	01EB260M	01C260M	01C16
	1 346	1 986	—	750	77	105	02EB260M	02C260M	02C36EX10³⁾
	1 346	1 986	167	750	77	105	02EB260M	02C260M	02C36GR11³⁾
	1 778	2 551	—	700	150	161	03B260M	03C260M	03C63EX10³⁾
	1 778	2 551	131	700	150	161	03B260M	03C260M	03C63GR10³⁾
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.



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**.

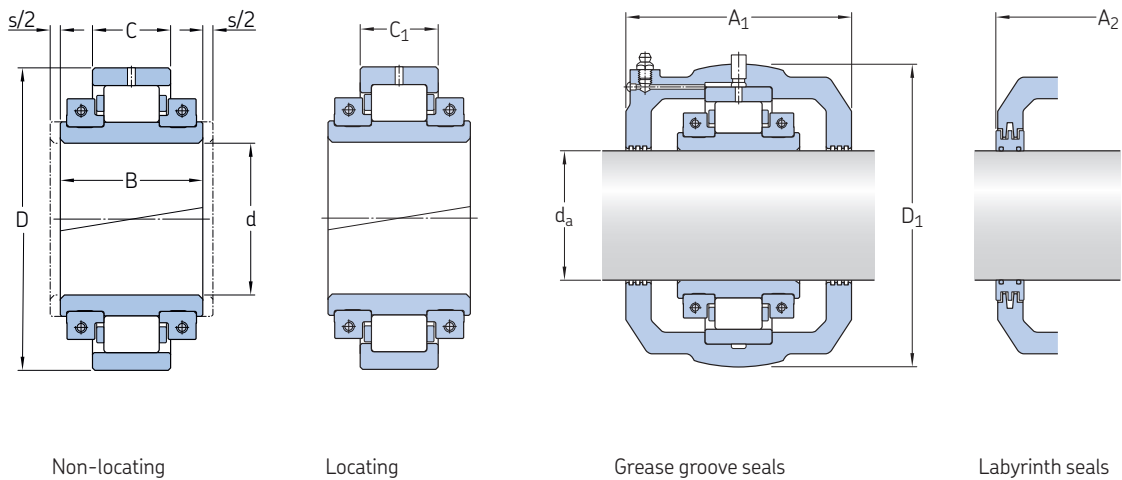
³⁾ Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

Shaft diameter	Load ratings			Limiting speed	Mass Bearing	Cartridge	Designations ²⁾		
	dynamic	static	axial				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	01B340MEX13³⁾	01C340MEX12³⁾	01C18EX³⁾
	894	1 638	89	590	72	106	01B340MGR13³⁾	01C340MGR11³⁾	01C18GR³⁾
	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.



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	488,95 565,15	136 200	74,6 115,9	74,6 115,9	10 16	546,1 628,7	260 305	272 342
14	488,95 565,15 615,95	136 200 279	74,6 115,9 158	74,6 115,9 158	10 16 22	546,1 628,7 704,9	260 305 432	272 342 432
360	488,95 488,95 520,7 565,15 615,95	136 136 140 200 279	74,6 – 76,2 115,9 158	– 74,6 76,2 115,9 158	10 – 10 16 22	546,1 546,1 571,5 628,7 704,9	260 260 260 305 432	272 272 280 342 432
380	520,7 584,2 685,8	140 200 292	76,2 111,1 166,7	76,2 111,1 166,7	10 16 23	571,5 647,7 774,7	260 305 400	280 342 438
15	520,7 584,2 685,8	140 200 292	76,2 111,1 166,7	76,2 111,1 166,7	10 16 23	571,5 647,7 774,7	260 305 400	280 342 438
390	546,1	140	76,2	76,2	10	603,3	280	286
400	546,1 615,95 685,8	140 200 292	76,2 115,9 166,7	76,2 115,9 166,7	10 16 23	603,3 685,8 774,7	280 324 400	286 350 438
16	546,1 615,95	140 200	76,2 115,9	76,2 115,9	10 16	603,3 685,8	280 324	286 350
420	571,5 647,7 700	140 200 284	76,2 119,1 160	76,2 119,1 160	10 17 23	628,7 717,6 788	292 324 440	298 356 442
17	571,5 647,7 700	140 200 284	76,2 119,1 160	76,2 119,1 160	10 17 23	628,7 717,6 788	292 324 440	298 356 442

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**.

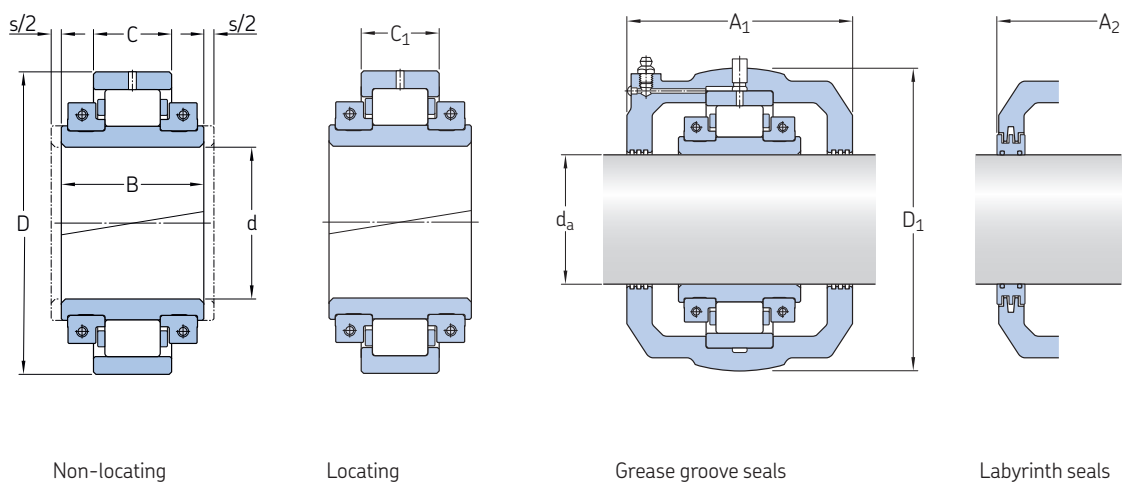
³⁾ Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

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	01B360MEX15³⁾	01C360MEX13³⁾	01C19EX³⁾
	935	1 774	99,6	540	78	117	01B360MGR15³⁾	01C360MGR16³⁾	01C19GR³⁾
	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.



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

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.

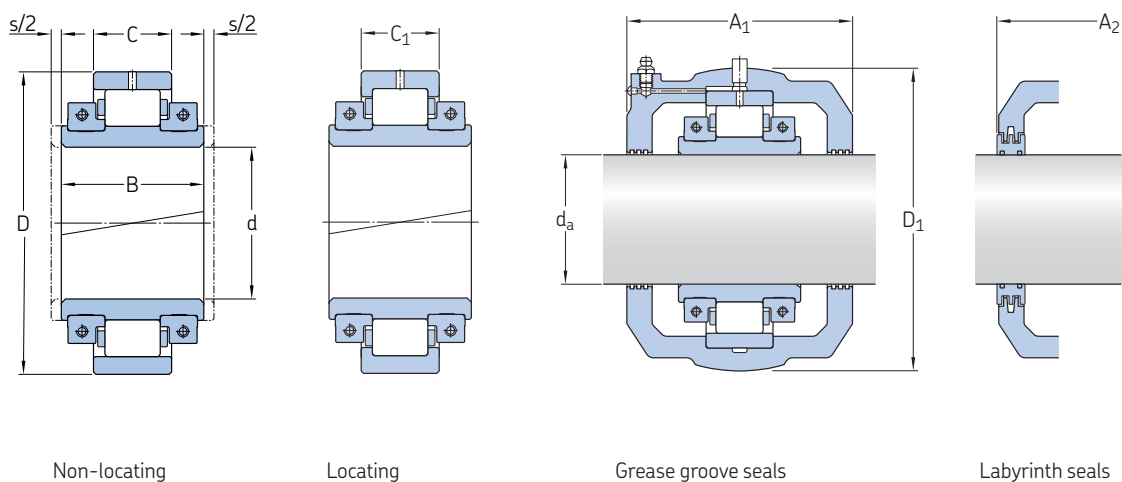
²⁾ Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

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

2.1 Split cylindrical roller bearings and cartridges

d_a 560 – 600 mm

23 – 24 in.



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	717,55 793,75 863,6	168 233 310	81 122,2 196,9	81 122,2 196,9	11 18 28	781,1 866,8 958,9	336 356 490	342 380 490
580	749,3 812,8	172 232	84,1 119,1	84,1 119,1	11 16	816 882,7	342 356	348 380
23	749,3 812,8 890	172 232 310	84,1 119,1 184	84,1 119,1 184	11 16 27	816 882,7 990	342 356 490	348 380 490
600	774,7 838,2 890	172 214 310	84,1 119,1 184	84,1 119,1 184	11 18 27	841,4 914,4 990	342 388 490	348 394 490
24	774,7 838,2	172 214	84,1 119,1	84,1 119,1	11 18	841,4 914,4	342 388	348 394

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.

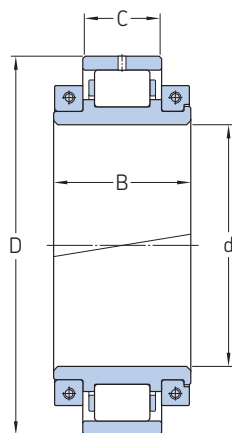
²⁾ Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

Shaft diameter	Load ratings			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		—		
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

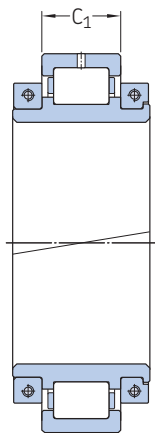
2.2 Examples of large size split cylindrical roller bearings

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		Designation ¹⁾
d	D	B	C, C ₁	dynamic C	static 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.

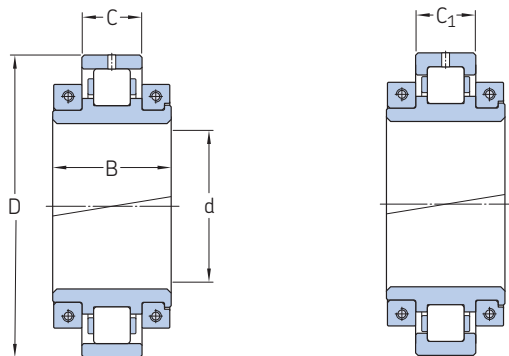
Principal dimensions				Load ratings		Designation ¹⁾
d	D	B	C, C ₁	dynamic C	static C ₀	
mm/in.	mm			kN		–
860	1 170	330	190	5 698	12 404	03B860M
950	1 172	220	120	3 238	8 209	01B950M
	1 212	260	156	4 882	11 587	02B950M
	1 320	250	410	10 312	24 647	03B950M
40	1 270	260	139,7	3 958	10 084	01B4000
1 100	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⁾
d	D	B	C, C ₁	dynamic C	static 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

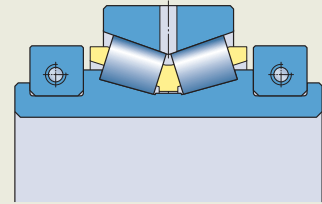
Split tapered roller bearings are suitable for various housing types, the most common being:

- 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:

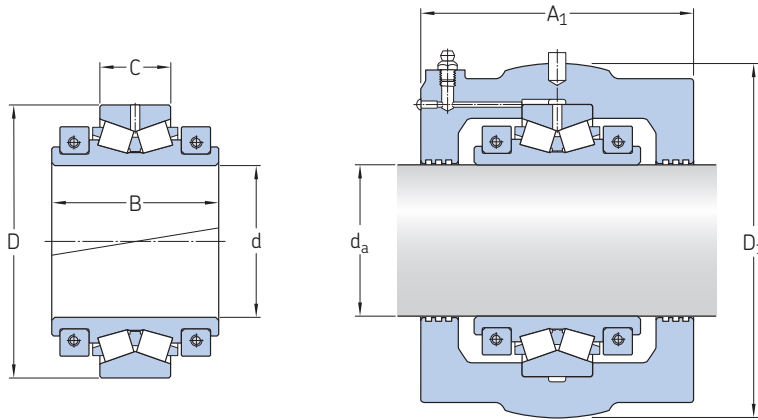
- the dimensional stability of the bearing rings and rolling elements
- the cages
- the seals
- the lubricant

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

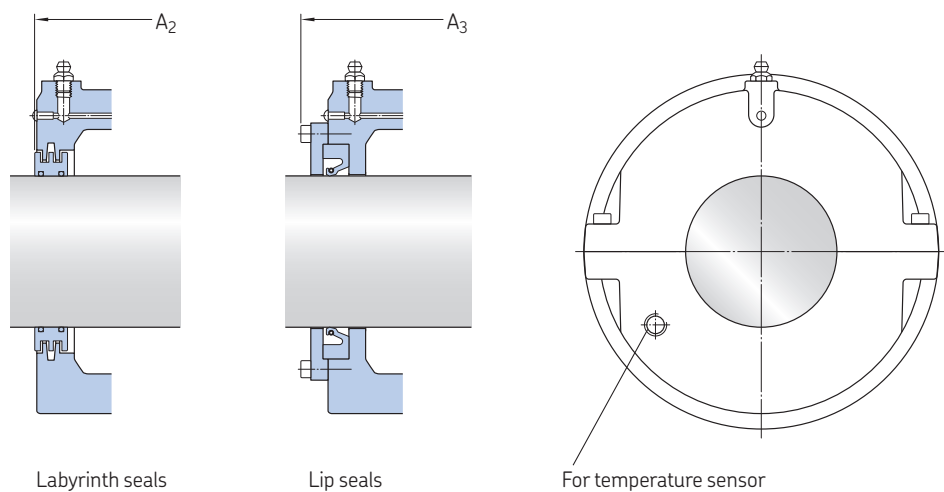
d_a 75 – 180 mm



Grease groove seals

Shaft diameter and bearing/cartridge dimensions								Load ratings		Limiting speed	Designations ¹⁾		
d_a, d	D	B	C	D_1	A_1	A_2	A_3	dynamic	static		Bearing	Cartridge with grease groove seals	Cartridge for labyrinth seals
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.



Shaft diameter	Calculation factors				Mass	
	Y_1	Y_2	Y_0	e	Bearing	Cartridge
d_a						
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

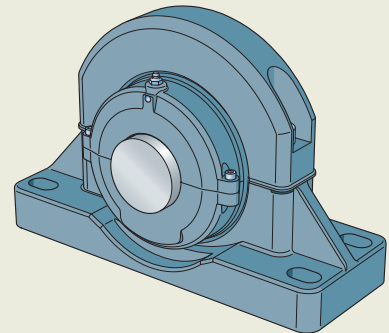
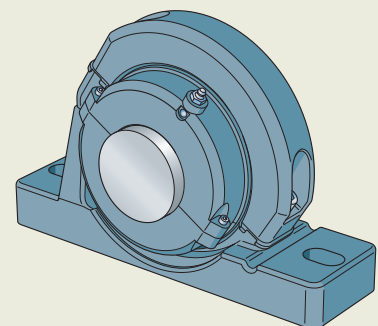


Fig. 2

Angled plummer block housing (SAFQ)



Permissible misalignment

Under constant or slowly changing alignment conditions, there is a permissible misalignment up to $2,5^\circ$ 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 $R_a \leq 12,5 \mu\text{m}$

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

Fig. 3

Load position in plummer block housings

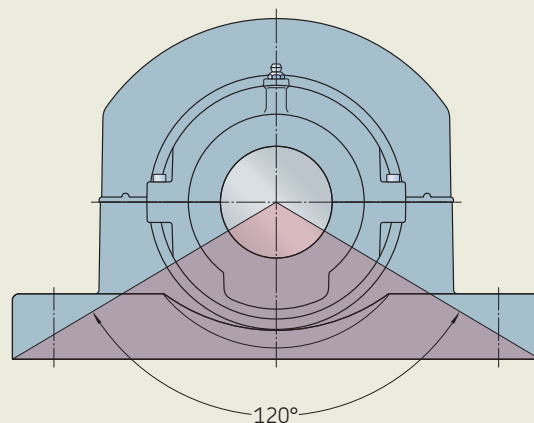
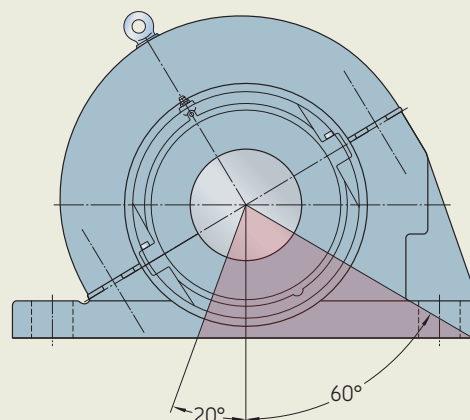


Fig. 4

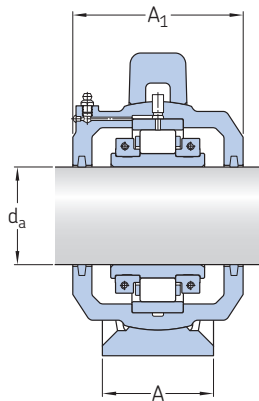
Load position in angled plummer block housings



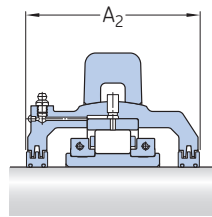
4.1 Plummer block housings for split cylindrical roller bearings

d_a 35 – 55 mm

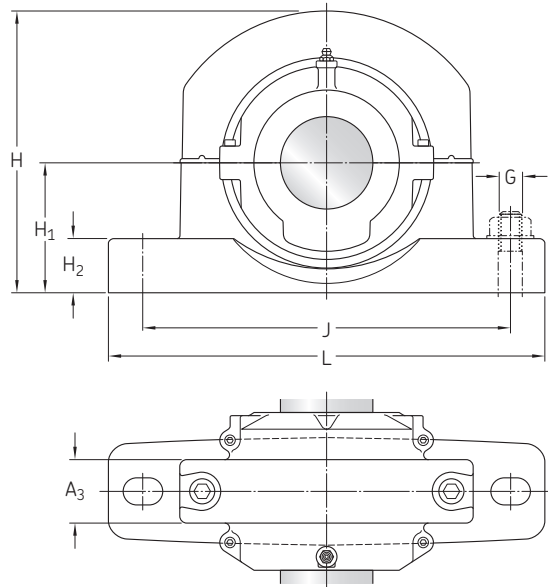
1 3/16 – 2 1/4 in.



Felt seals



Labyrinth seals



Shaft diameter

Designations¹⁾
Housing

Bearing

Cartridge
with felt seals

Cartridge
for labyrinth seals

d_a

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

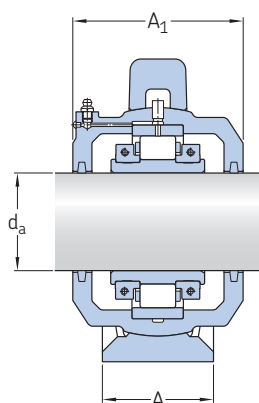
¹⁾ Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on page 186.

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	98	98	25	158	70	25	203	227	270	M16 or 5/8 in.	3,2
	70	114	114	32	180	80	32	226	242	280	M16 or 5/8 in.	4,9
50	60	98	98	25	158	70	25	203	227	270	M16 or 5/8 in.	3,2
	70	114	114	32	180	80	32	226	242	280	M16 or 5/8 in.	4,9
2	60	98	98	25	158	70	25	203	227	270	M16 or 5/8 in.	3,2
	70	114	114	32	180	80	32	226	242	280	M16 or 5/8 in.	4,9
55	70	104	104	32	180	80	32	226	242	280	M16 or 5/8 in.	4,9
2 3/16	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 1/4	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

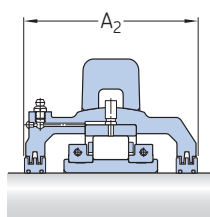
4.1 Plummer block housings for split cylindrical roller bearings

d_a 60 – 80 mm

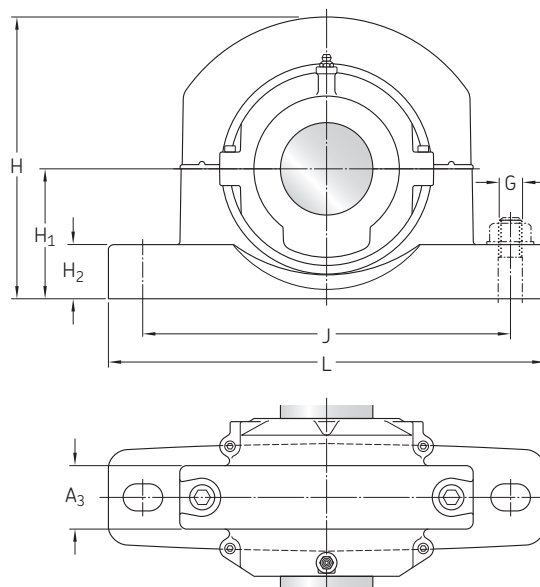
2 7/16 – 3 in.



Felt seals



Labyrinth seals



Shaft diameter	Designations ¹⁾ Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a				
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

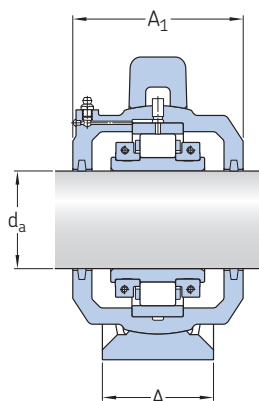
¹⁾ Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on page 186.

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

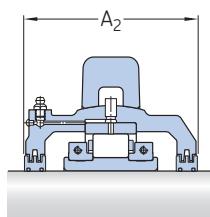
4.1 Plummer block housings for split cylindrical roller bearings

d_a 85 – 95 mm

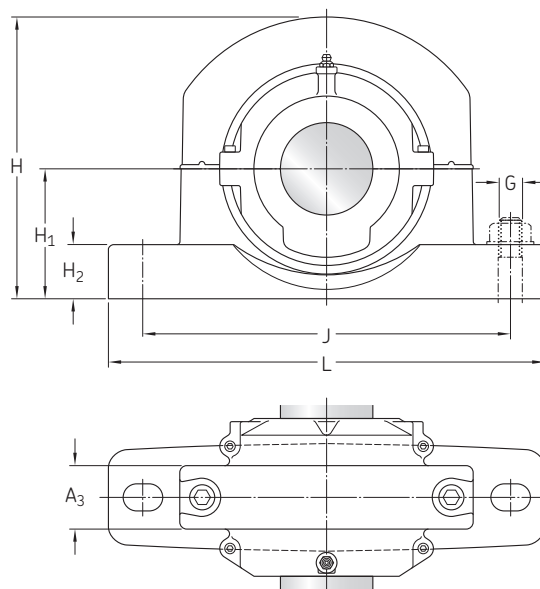
$3 \frac{3}{16} - 3 \frac{3}{4}$ in.



Felt seals



Labyrinth seals



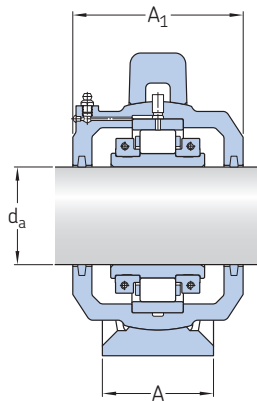
Shaft diameter	Designations ¹⁾ Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a				
mm/in.	–			
$3 \frac{3}{16}$	P05 P06	01EB303 02EB303	01C303 02C303	01C5 02C6
$3 \frac{1}{4}$	P05 P06	01EB304 02EB304	01C304 02C304	01C5 02C6
85	P04 P05 P06	100B85M 01EB85M 02EB85M	100C85M 01C85M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

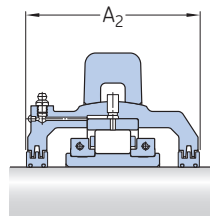
Shaft diameter	Dimensions										Attachment bolts	Mass Housing
d _a	A	A ₁	A ₂	A ₃	H	H ₁	H ₂	J min.	max.	L	G	
mm/in.	mm										–	kg
3 3/16	90	136	136	50	252	112	44	312	328	380	M24 or 7/8 in.	13,5
	102	154	154	50	272	125	52	342	366	420	M24 or 7/8 in.	14,5
3 1/4	90	136	136	50	252	112	44	312	328	380	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

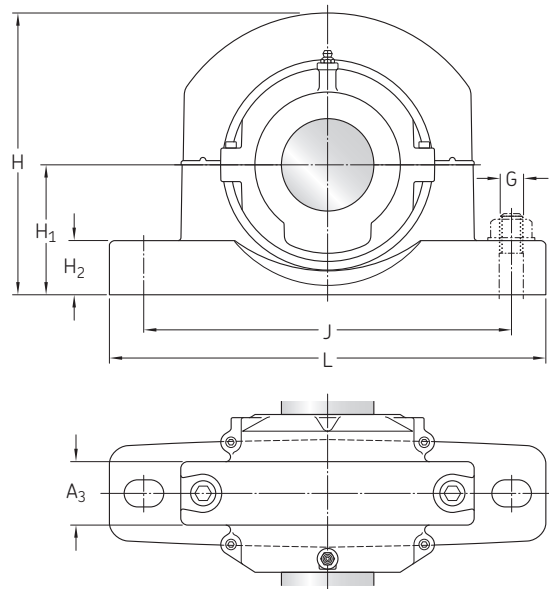
d_a 100 – 115 mm
3 15/16 – 4 1/2 in.



Felt seals



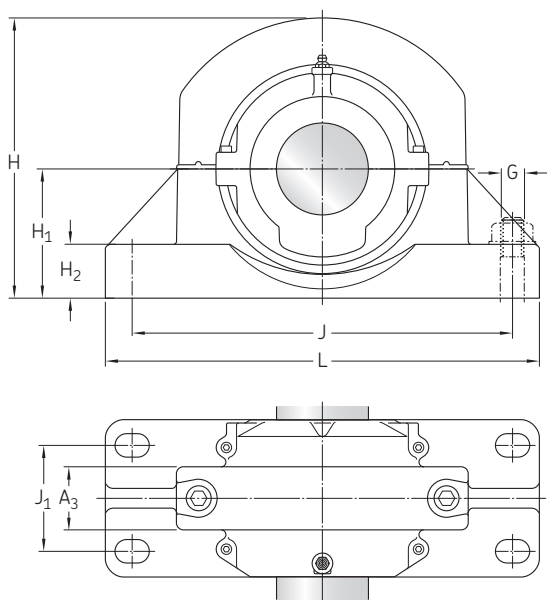
Labyrinth seals



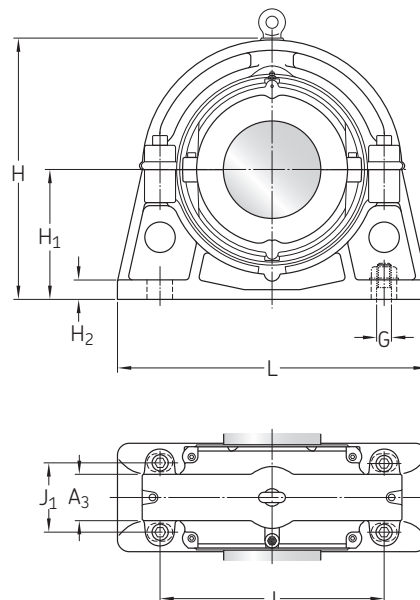
P05, P06, P07

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



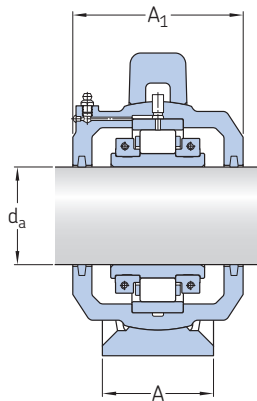
P54, P55

Shaft diameter Dimensions

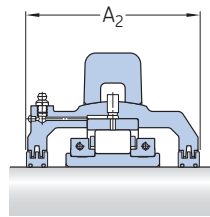
d _a	A	A ₁	A ₂	A ₃	H	H ₁	H ₂	J min.	max.	J ₁	L	G	Attachment bolts	Mass Housing
mm/in.	mm												–	kg
100	90	136	136	50	252	112	44	312	328	–	380		M24 or 7/8 in.	13,5
	102	134	134	50	272	125	52	342	366	–	420		M24 or 7/8 in.	14,5
	120	146	146	64	314	143	60	374	410	–	466		M24 or 7/8 in.	20,5
	152	200	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

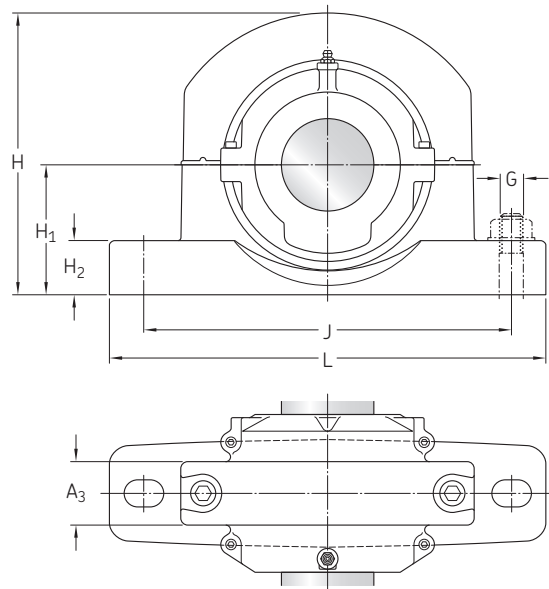
d_a 120 – 135 mm
 $4\frac{15}{16}$ – $5\frac{1}{2}$ in.



Felt seals



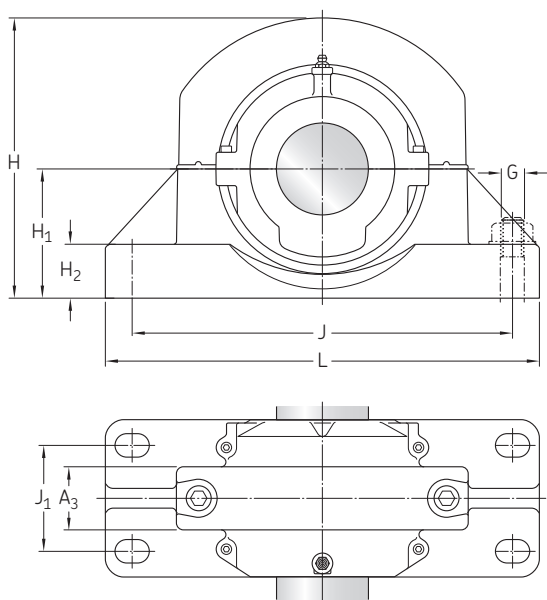
Labyrinth seals



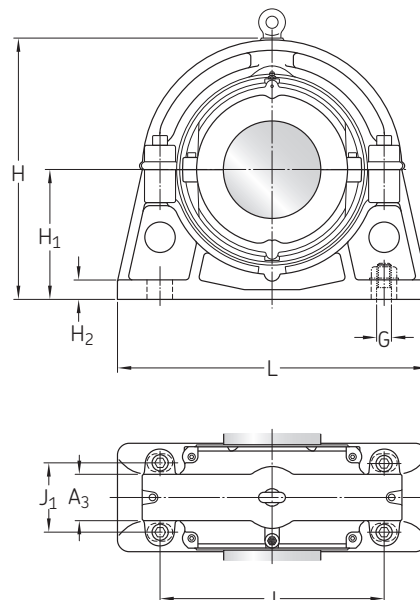
P07

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

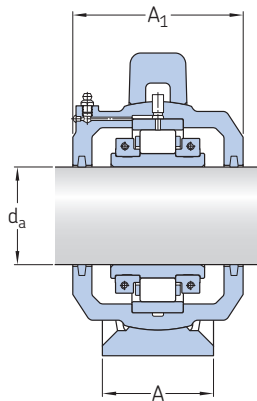


P55, P56, P57

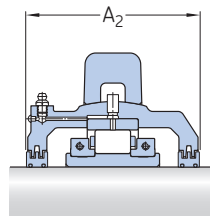
Shaft diameter	Dimensions											Attachment bolts	Mass Housing
d _a	A	A ₁	A ₂	A ₃	H	H ₁	H ₂	J min.	max.	J ₁	L	G	
mm/in.	mm												kg
120	120	142	142	64	314	143	60	374	410	–	466	M24 or 7/8 in.	20,5
	178	156	156	76	372	162	38	438	462	120	508	M24 or 7/8 in.	43,5
	178	184	184	82	415	181	41	484	508	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

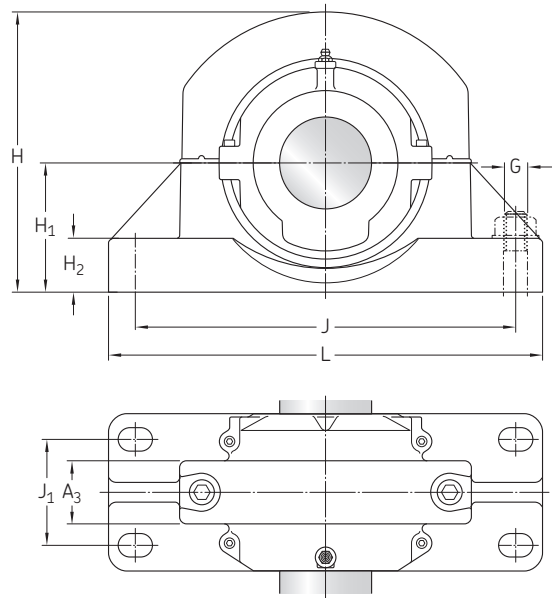
d_a 140 – 160 mm
5 15/16 – 6 1/2 in.



Felt seals



Labyrinth seals

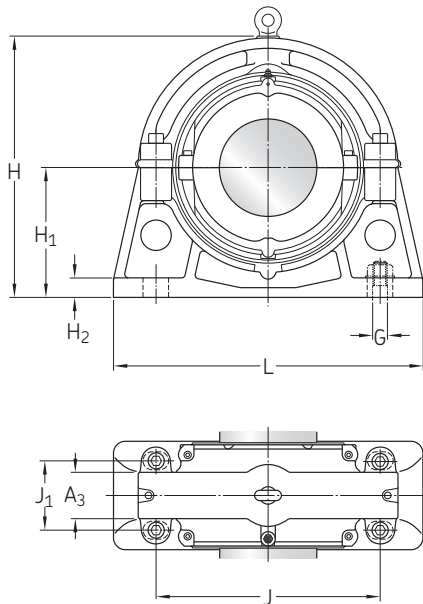


P08, P09, P10, P30, P31

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



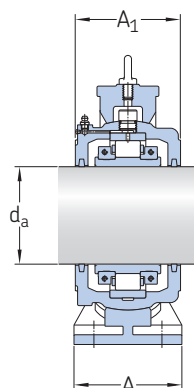
P11, P32, P57, P58, P59

Shaft diameter	Dimensions											Attachment bolts	Mass Housing
d_a	A	A_1	A_2	A_3	H	H_1	H_2	J min.	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

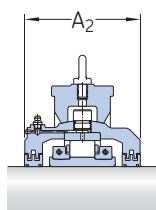
4.1 Plummer block housings for split cylindrical roller bearings

d_a 170 – 200 mm

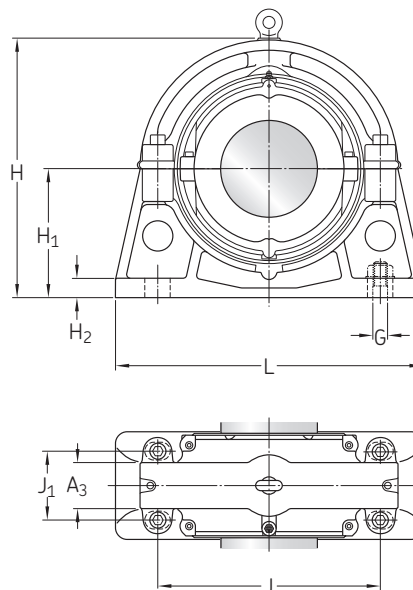
6 ¹⁵/₁₆ – 8 in.



Felt seals



Labyrinth seals



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

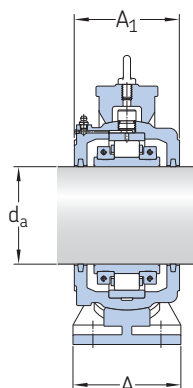
³⁾ Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

Shaft diameter	Dimensions											Attachment bolts	Mass Housing
d _a	A	A ₁	A ₂	A ₃	H	H ₁	H ₂	J min.	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

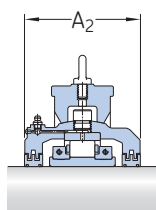
4.1 Plummer block housings for split cylindrical roller bearings

d_a 220 – 275 mm

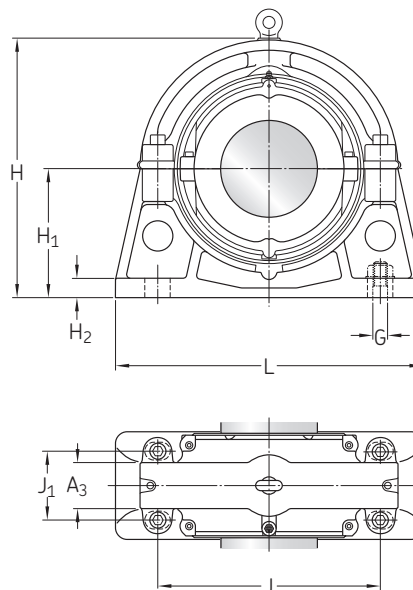
9 – 10 in.



Felt seals



Labyrinth seals



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

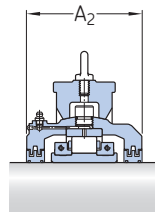
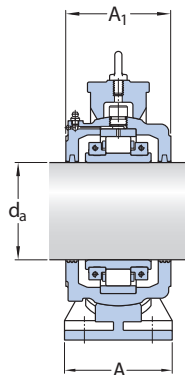
³⁾ Most designations shown require either suffix "EX" to denote non-locating type, or "GR" to denote locating type. Designations which already include "EX" or "GR" followed by a numerical suffix are complete designations and indicate non-locating and locating types respectively.

Shaft diameter	Dimensions											Attachment bolts	Mass Housing
d _a	A	A ₁	A ₂	A ₃	H	H ₁	H ₂	J min.	max.	J ₁	L	G	
mm/in.	mm											–	kg
220	204	172	2 ¹⁾	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

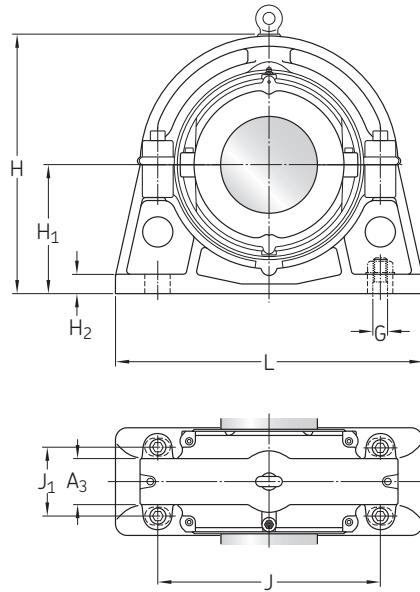
d_a 280 – 350 mm

11 – 13 in.



Felt / Grease groove seals

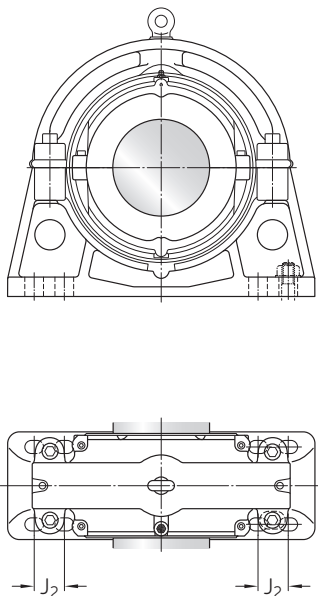
Labyrinth seals



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

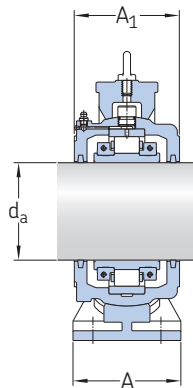


Shaft diameter	Dimensions												Attachment bolts	Mass Housing
d_a	A	A_1	A_2	A_3	H	H_1	H_2	J min.	J max.	J_1	J_2	L	G	
mm/in.	mm												–	kg
11	228	204	232	95	620	311	48	514	554	140	–	724	M30 or 1 1/4 in.	142
	330	264	300	130	760	378	60	514	554	254	101	914	M30 or 1 1/4 in.	292
	280	356	356	165	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
340 340	254	260	272	95	735	368	54	602	642	178	–	812	M36 or 1 1/2 in.	196
	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

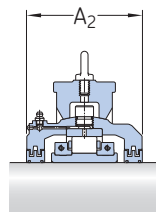
4.1 Plummer block housings for split cylindrical roller bearings

d_a 360 – 440 mm

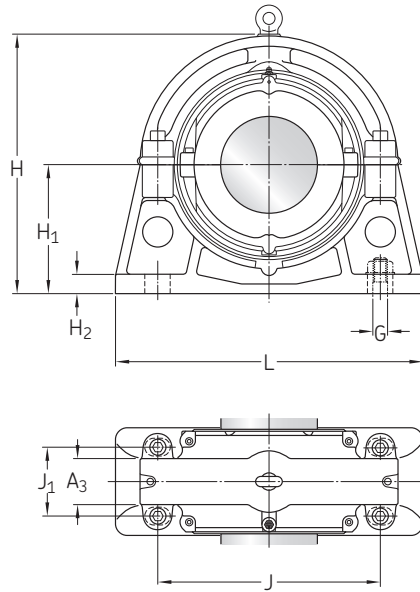
14 – 17 in.



Grease groove seals



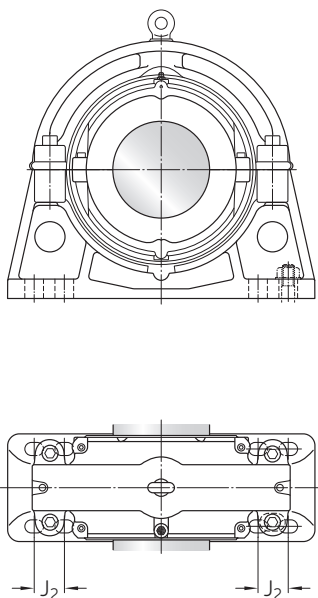
Labyrinth seals



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

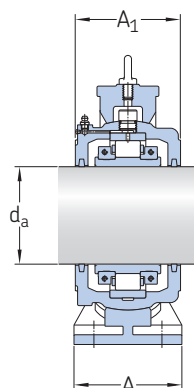


Shaft diameter	Dimensions												Attachment bolts	Mass Housing
d _a	A	A ₁	A ₂	A ₃	H	H ₁	H ₂	J min.	max.	J ₁	J ₂	L	G	
mm/in.	mm												–	kg
14	254	260	272	98	775	387	57	634	674	166	–	850	M36 or 1 1/2 in.	213
	368	305	342	146	900	451	67	640	680	280	102	1 092	M36 or 1 1/2 in.	429
	318	432	432	196	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

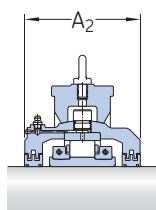
4.1 Plummer block housings for split cylindrical roller bearings

d_a 460 – 580 mm

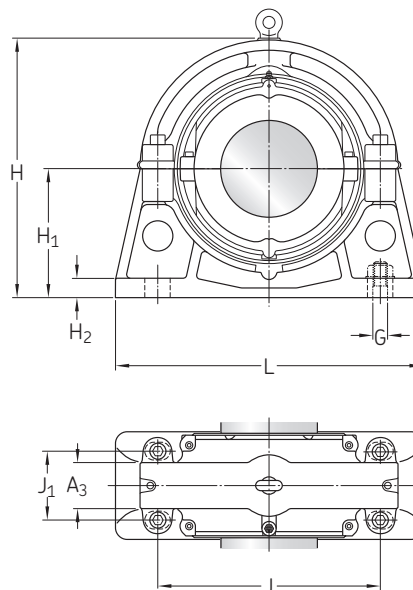
18 – 22 in.



Grease groove seals

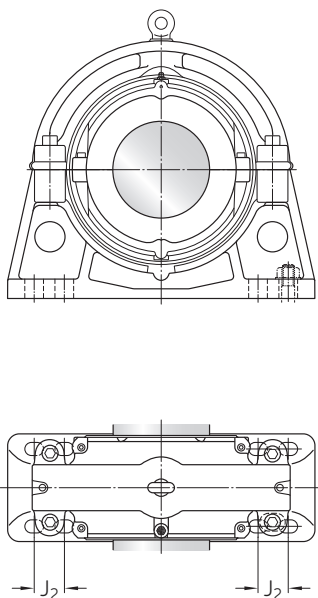


Labyrinth seals



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

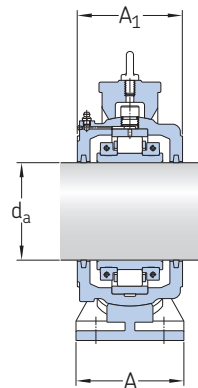
¹⁾ Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on page 186.



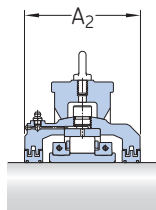
Shaft diameter	Dimensions												Attachment bolts	Mass Housing
d_a	A	A_1	A_2	A_3	H	H_1	H_2	J min.	max.	J_1	J_2	L	G	
mm/in.	mm												–	kg
18	280	304	310	108	925	464	70	768	808	190	–	1 042	M42 or 1 3/4 in.	370
	368	324	356	146	1 070	533	73	768	808	280	104	1 244	M36 or 1 1/2 in.	564
	380	450	450	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

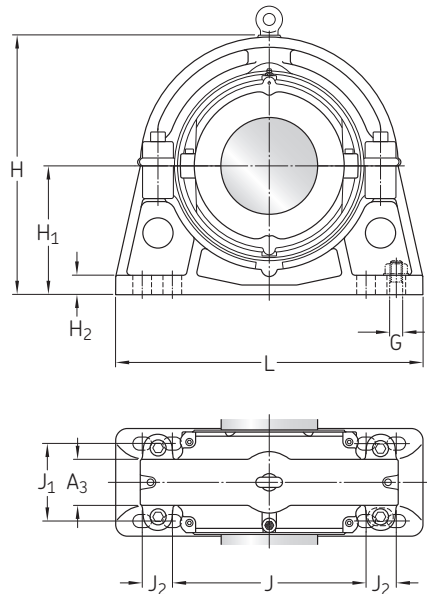
d_a 600 mm
23 – 24 in.



Grease groove seals



Labyrinth seals



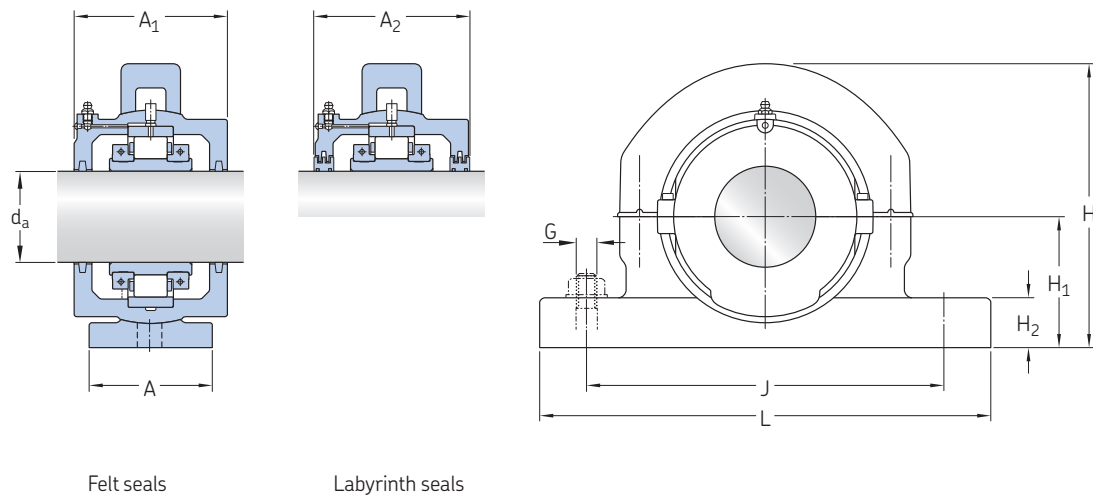
Shaft diameter	Designations ¹⁾	Bearing	Cartridge	Cartridge
	Housing		with grease	for labyrinth
d_a			groove seals	seals
mm/in.	—			
23	P28 P49 P95	01B2300 02B2300 03EB2300	01C2300 02C2300 03EC2300	01C28 02C49 03EC95
600	P29 P50 P95	01B600M 02B600M 03EB600M	01C600M 02C600M 03EC600M	01C29 02C50 03EC95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



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

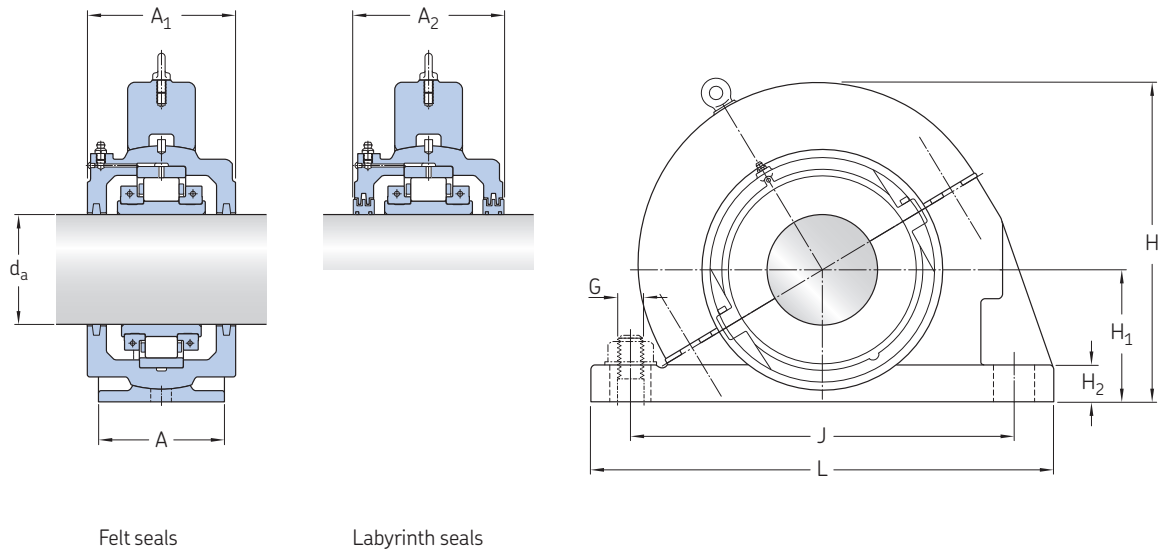
¹⁾ Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

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



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

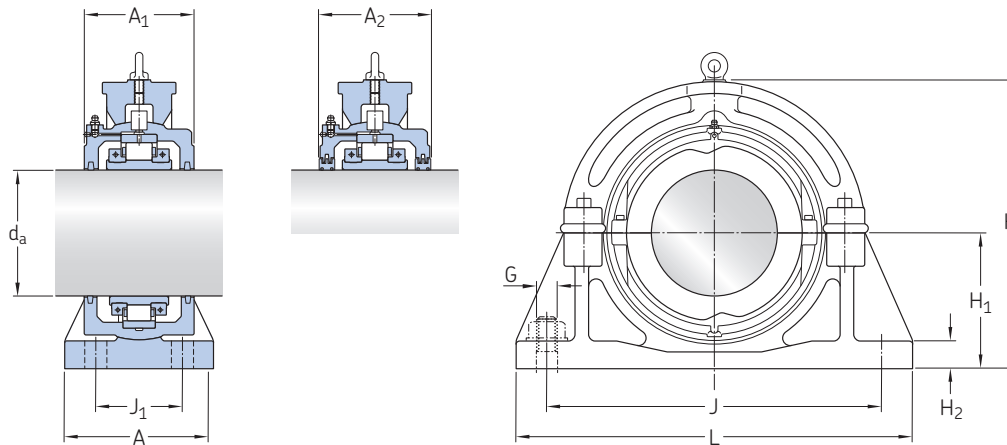
¹⁾ Most common shaft sizes. Other sizes are available on request.

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

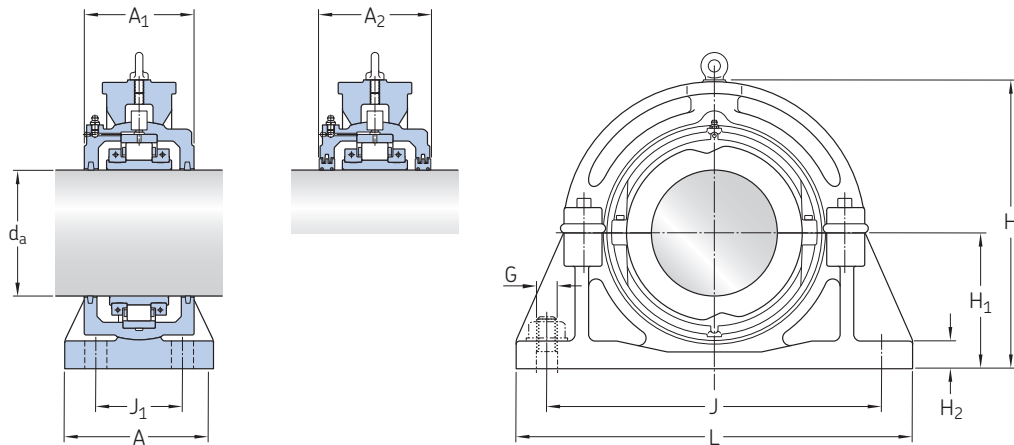
Shaft diameter	Designations ¹⁾			
d_a	Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
mm	–			
150	SDC3134 SDC3134 PN3112 PN3112	01EB150MEX 01EB150MGR 02EB160MEX10 02EB150MGR11	01C150MEX 01C150MGR 02C150MEX11 02C150MGR11	01C10EX 01C10GR 02C31EX20 02C31GR22
160	SDC3136 SDC3136 PN3113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

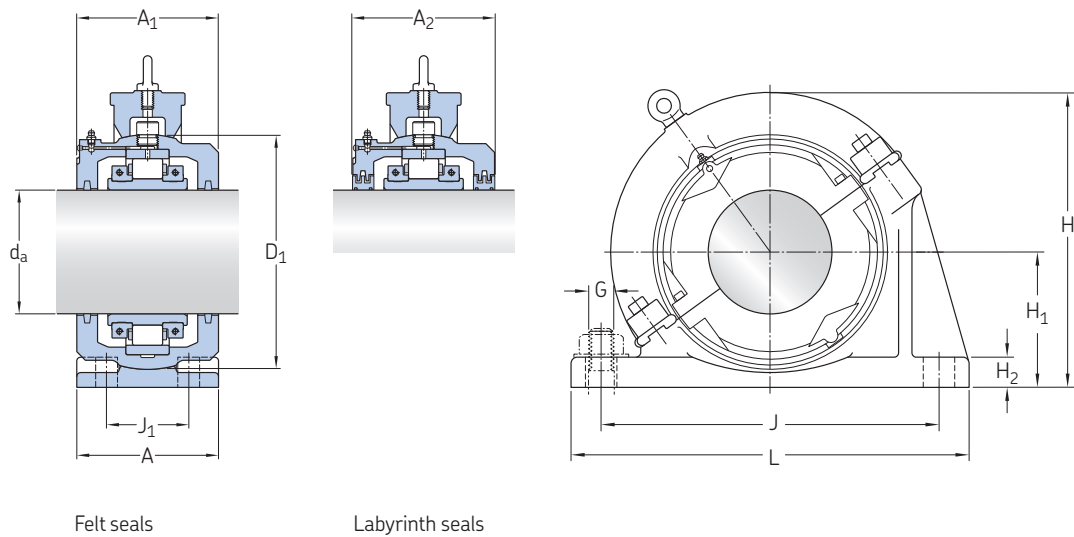
Shaft diameter d_a	Designations ¹⁾			
	Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
mm	–			
240	SDC3152	01EB240MEX	01C240MEX	01C15EX
	SDC3152	01EB240MGR	01C240MGR	01C15GR
	PN3610	02EB240MEX	02C240MEX	02C36EX
	PN3610	02EB240MGR	02C240MGR	02C36GR
260	SDC3156	01EB260MEX	01C260MEX	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



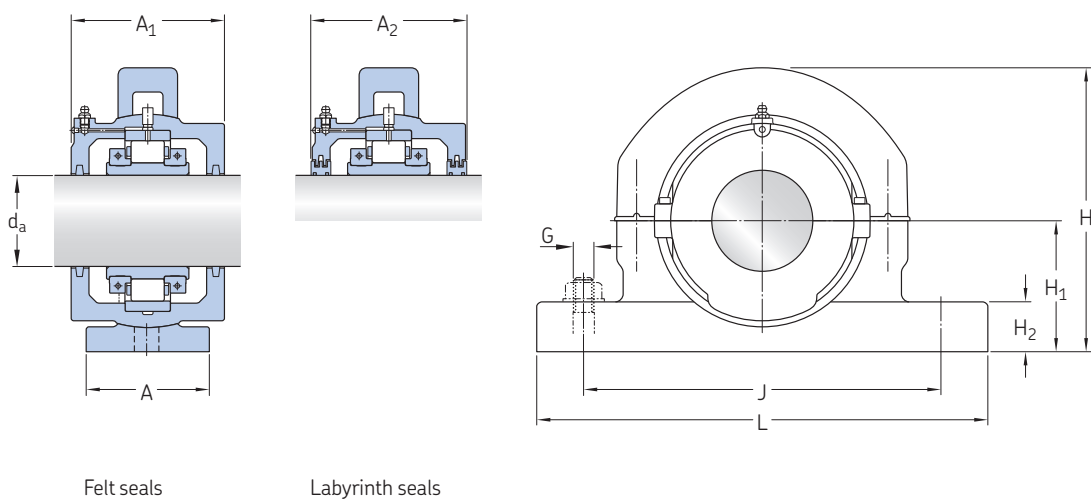
Shaft diameter ¹⁾	Designations ²⁾ Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d _a				
mm	–			
150	SDQ3134	01EB150M	01C150M	01C10
160	SDQ3136	01EB160M	01C160M	01C11
180	SDQ3140	01EB180M	01C180M	01C12
200	SDQ3144	01EB200M	01C200M	01C13
220	SDQ3148	01EB220M	01C220M	01C14

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.	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

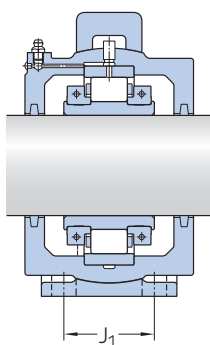
d_a 1 15/16 – 5 15/16 in.



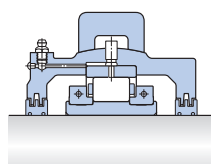
Shaft diameter d_a in.	Designations ¹⁾ Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
1 15/16	SAFC511	01EB115	01C115	01C2
2 3/16	SAFC513	01EB203	01C203	01C3
2 7/16	SAFC515	01EB207	01C207	01C3
2 11/16	SAFC516	01EB211	01C211	01C4
2 15/16	SAFC517 FSAFC517	01EB215 02EB215	01C215 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**.

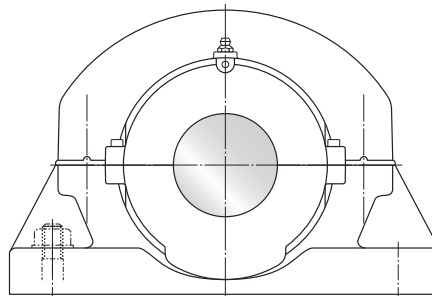
²⁾ A special bearing and cartridge are required for this size. Load ratings are the same as for a standard 02EB415, but bearing and cartridge outside diameters may differ. The relevant designations are 'Fixed-type bearing' 02EB415GR16, 'Expansion-type bearing' 02EB415EX16, 'Fixed-type cartridge' (for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



Felt seals



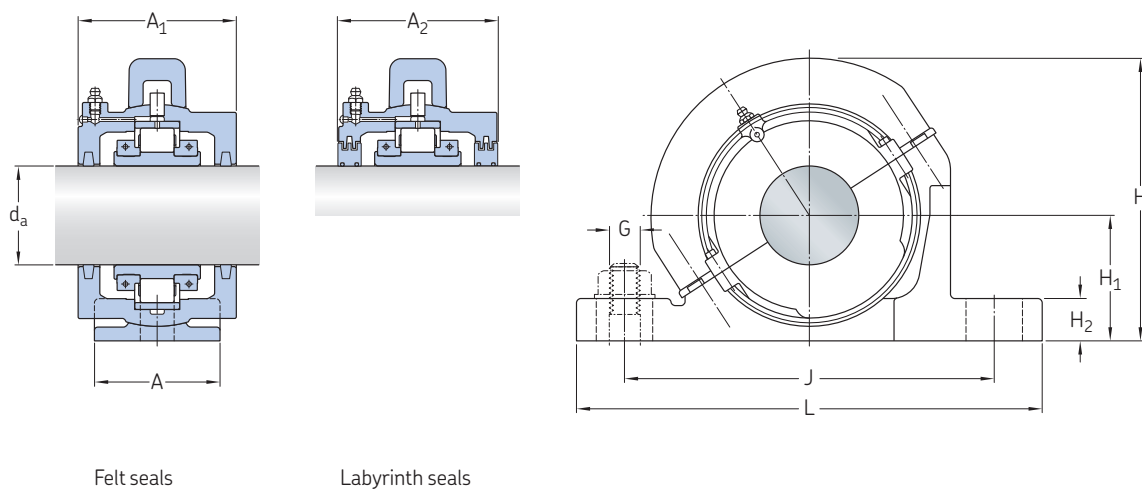
Labyrinth seals



Shaft diameter	Dimensions										Attachment bolts	Mass Housing
d_a	A	A_1	A_2	H	H_1	H_2	$J_{\min.}$	$J_{\max.}$	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	4 1/2	4 1/2	8 3/16	3 3/4	1 7/16	9 7/8	11	–	13	3/4 in.	11,5
	3 1/2	5 1/2	5 1/2	8 1/2	3 3/4	1 1/4	10	10 7/8	2 3/16	13	5/8 in.	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	5 5/16	5 5/16	10	4 1/2	1 3/4	11 5/8	13 1/8	–	15 1/4	7/8 in.	19,5
	4 7/8	6 1/16	6 1/16	10 1/4	4 1/2	1 3/4	11 5/8	13 1/8	2 3/8	15 1/4	3/4 in.	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.



Shaft diameter ¹⁾	Designations ²⁾ Housing	Bearing	Cartridge with felt seals	Cartridge for labyrinth seals
d_a				
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.

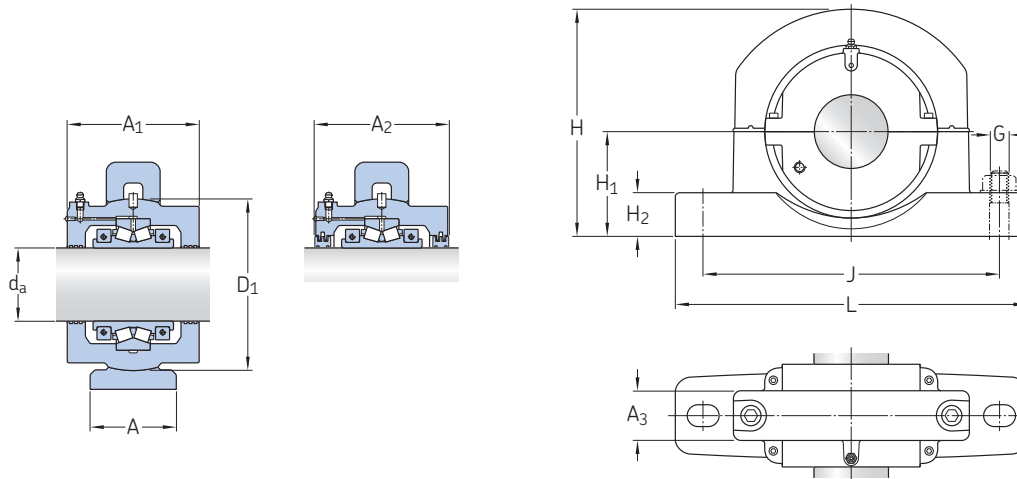
²⁾ Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on **page 186**.

³⁾ A special bearing and cartridge are required for this size. Load ratings are the same as for a standard 02EB415, but bearing and cartridge 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.	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

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.	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 $2,5^\circ$ without compromising sealing capability.

Fig. 1

Housing with a round flange

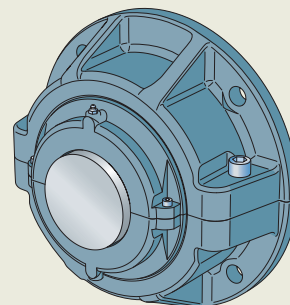


Fig. 2

Housing with a square flange

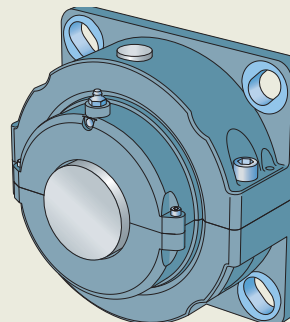
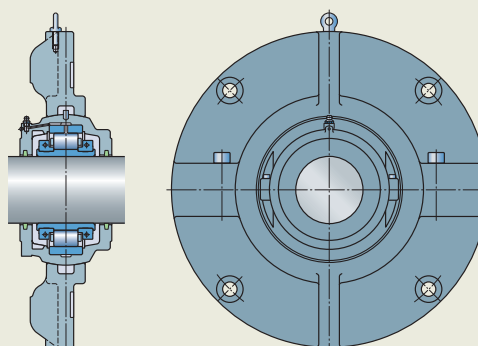


Fig. 3

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 $R_a \leq 12,5 \mu\text{m}$

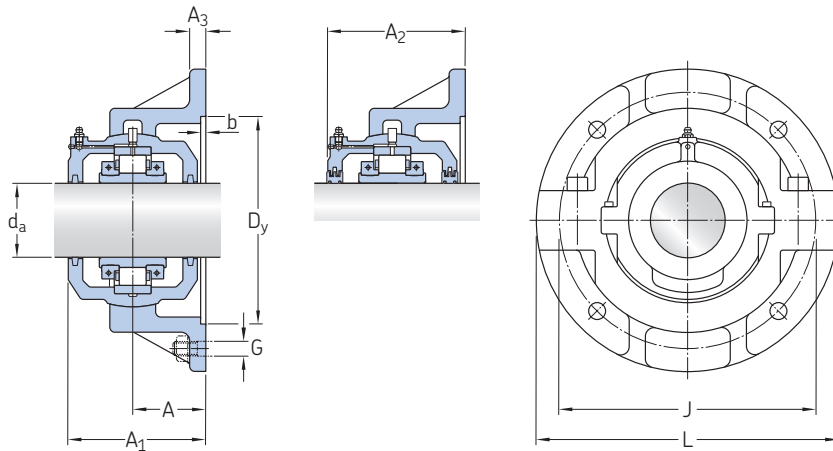
Square flanges are more appropriate for steel frames or skid mounted units.

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.



Shaft diameter	Designations ¹⁾		Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions								Attachment bolts	Mass Housing
	Hous- ing	Bearing			A	A ₁	A ₂	A ₃	D _y	b ²⁾	J	L ³⁾		
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 d_a	Designations ¹⁾		Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions								Attachment bolts	Mass Housing
	Hous- ing	Bearing			A	A ₁	A ₂	A ₃	D _y	b ²⁾	J	L ³⁾	G	
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

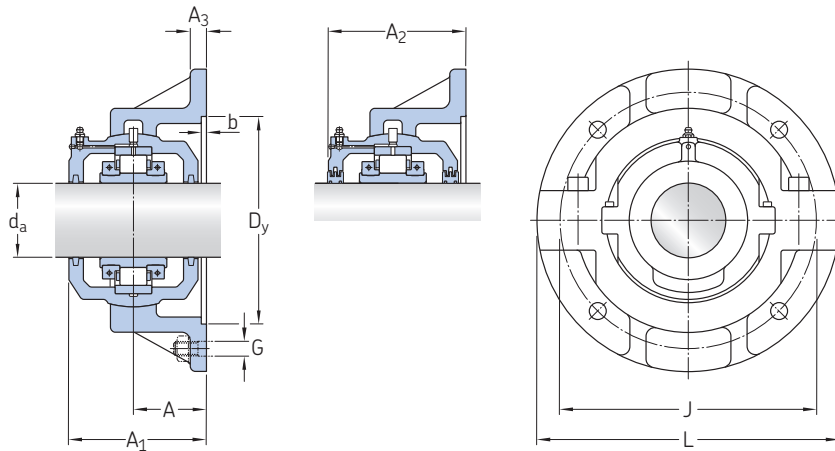
¹⁾ Only basic designations are shown. A suffix is required to specify if the bearing and cartridge are for the locating or non-locating position. Other bearing options and alternative seals are available on request. For additional information, refer to *Designations* on page 186.

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
 $3 \frac{15}{16} - 6 \frac{1}{2}$ in.



Felt seals

Labyrinth seals

Shaft diameter d_a	Designations ¹⁾		Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions								Attachment bolts G	Mass Housing
	Housing	Bearing			A	A ₁	A ₂	A ₃	D _y	b ²⁾	J	L ³⁾		
mm/in.	—	—			mm								—	kg
$3 \frac{15}{16}$	F05	100B315	100C315	100C5	79	147	147	19	215,9	3	274	330	M16 or $\frac{5}{8}$ in.	19,5
	F06	01EB315	01C315	01C6	86	153	153	19	244,48	3	302	356	M16 or $\frac{5}{8}$ in.	22
	F07	02EB315	02C315	02C7	92	165	165	22	276,23	3	334	382	M16 or $\frac{5}{8}$ in.	26,5
4	F05	100B400	100C400	100C5	79	147	147	19	215,9	3	274	330	M16 or $\frac{5}{8}$ in.	19,5
	F06	01EB400	01C400	01C6	86	153	153	19	244,48	3	302	356	M16 or $\frac{5}{8}$ in.	22
	F07	02EB400	02C400	02C7	92	165	165	22	276,23	3	334	382	M16 or $\frac{5}{8}$ in.	26,5
105	F06	01EB105M	01C105M	01C6	86	153	153	19	244,48	3	302	356	M16 or $\frac{5}{8}$ in.	22
	F07	02EB105M	02C105M	02C7	92	165	165	22	276,23	3	334	382	M16 or $\frac{5}{8}$ in.	26,5
$4 \frac{3}{16}$	F07	01EB403	01C403	01C7	92	163	163	22	276,23	3	334	382	M16 or $\frac{5}{8}$ 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 $\frac{5}{8}$ in.	22
	F07	01EB110M	01C110M	01C7	92	163	163	22	276,23	3	334	382	M16 or $\frac{5}{8}$ in.	26,5
	F08	02EB110M	02C110M	02C8	98	179	179	22	314,33	3	374	432	M24 or 1 in.	35
$4 \frac{7}{16}$	F06	100B407	100C407	100C6	86	153	153	19	244,48	3	302	356	M16 or $\frac{5}{8}$ in.	22
	F07	01EB407	01C407	01C7	92	163	163	22	276,23	3	334	382	M16 or $\frac{5}{8}$ in.	26,5
	F08	02EB407	02C407	02C8	98	179	179	22	314,33	3	374	432	M24 or 1 in.	35
$4 \frac{1}{2}$	F06	100B408	100C408	100C6	86	153	153	19	244,48	3	302	356	M16 or $\frac{5}{8}$ in.	22
	F07	01EB408	01C408	01C7	92	163	163	22	276,23	3	334	382	M16 or $\frac{5}{8}$ 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 $\frac{5}{8}$ in.	22
	F07	01EB115M	01C115M	01C7	92	163	163	22	276,23	3	334	382	M16 or $\frac{5}{8}$ 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 $\frac{5}{8}$ 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 $\frac{5}{8}$ 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 d_a	Designations ¹⁾		Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions								Attachment bolts		Mass Housing
	Hous- ing	Bearing			A	A ₁	A ₂	A ₃	D _y	b ²⁾	J	L ³⁾	G		
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⁾	01C160MEX10 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.)

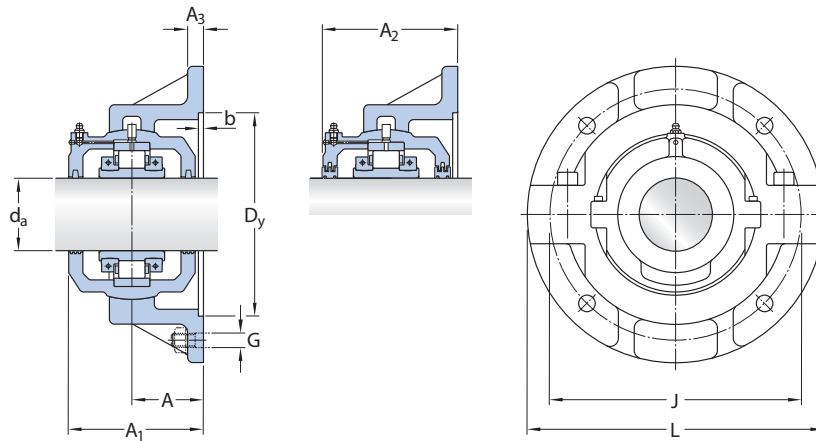
³⁾ As-cast dimension. Depending upon the manufacturing method used, the flange supplied may be machined 5 mm smaller than the dimension provided.

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 d_a	Designations ¹⁾		Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions								Attachment bolts G	Mass Housing kg
	Hous- ing	Bearing			A	A ₁	A ₂	A ₃	D _y	b ²⁾	J	L ³⁾		
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 d _a	Designations ¹⁾		Cartridge with felt / grease groove seals	Cartridge for labyrinth seals	Dimensions								Attachment bolts		Mass Housing
	Hous- ing	Bearing			A	A ₁	A ₂	A ₃	D _y	b ²⁾	J	L ³⁾	G		
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.)

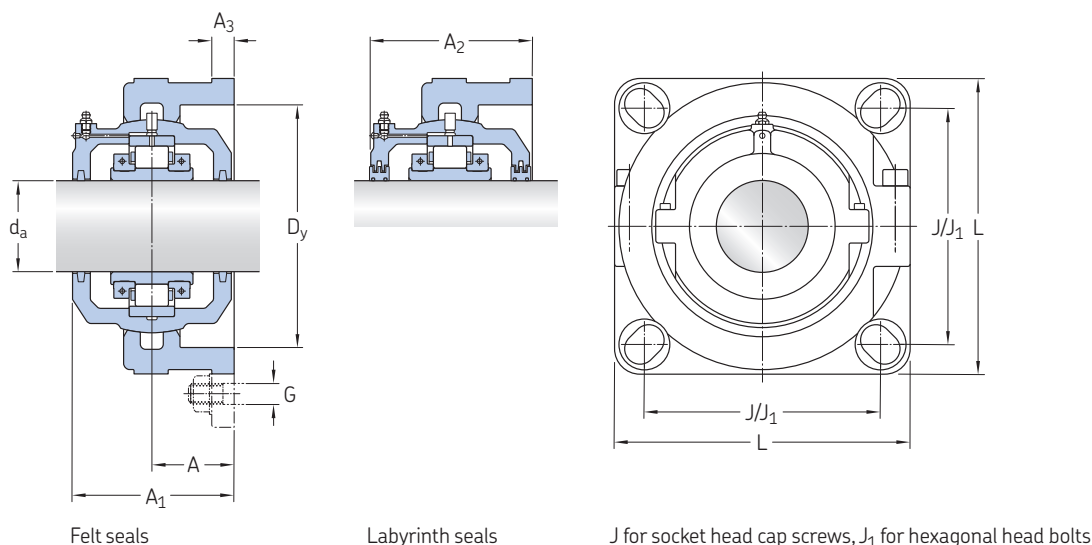
³⁾ As-cast dimension. Depending upon the manufacturing method used, the flange supplied may be machined 5 mm smaller than the dimension provided.

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.



Shaft diameter d_a	Designations ¹⁾		Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions									Attachment bolts G	Mass Housing
	Housing	Bearing			A	A ₁	A ₂	A ₃	D _y	J min.	J max.	J ₁	L		
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.

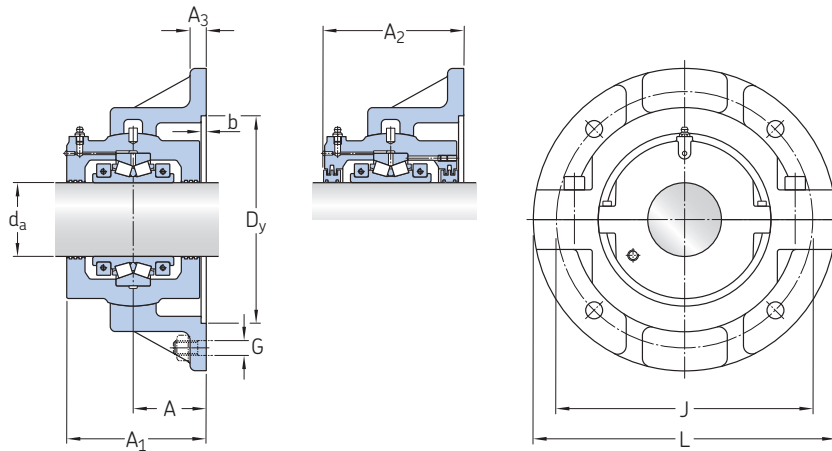
Shaft diameter d _a	Designations ¹⁾		Cartridge with felt seals	Cartridge for laby- rinth seals	Dimensions									Attachment bolts G	Mass Housing
	Housing	Bearing			A	A ₁	A ₂	A ₃	D _y	J min.	max.	J ₁	L		
mm/in.	—				mm									—	kg
3	DF03 DF04	100B300 01EB300	100C300 01C300	100C3 01C4	55 60	107 117	107 117	16 16	146 178	136 164	149 175	141 171	184 217	M16 or 5/8 in. M20 or 3/4 in.	5,6 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 DFN0510	100B85M 01EB85M	100C85M 01C85M	100C4 01C5	60 79	117 147	117 147	16 25	178 180	164 171	175 171	171 171	217 214 ²⁾	M20 or 3/4 in. M20 or 3/4 in.	8,5 11
3 7/16	DF04 DFN0510	100B307 01EB307	100C307 01C307	100C4 01C5	60 79	117 147	117 147	16 25	178 180	164 171	175 171	171 171	217 214 ²⁾	M20 or 3/4 in. M20 or 3/4 in.	8,5 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 d_a	Designations ¹⁾		Cartridge with grease groove seals	Cartridge for labyrinth seals	Dimensions								Attachment bolts G	Mass Housing
	Housing	Bearing			A	A ₁	A ₂	A ₃	D _y	b ²⁾	J	L ³⁾		
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.

³⁾ 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.

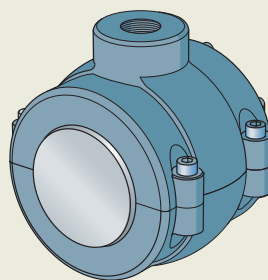
Housing materials

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

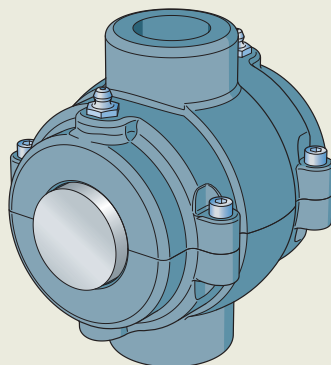
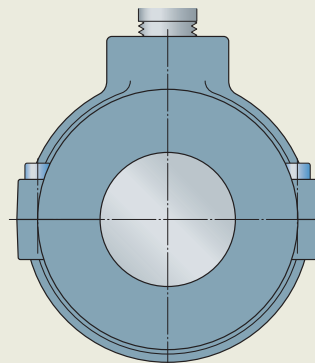
Alternative materials are available. Please contact SKF for more information.

Hanger housings

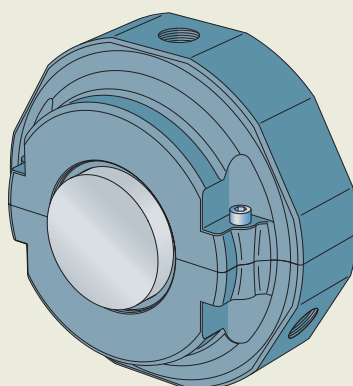
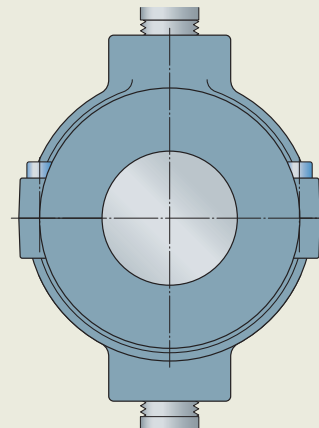
Fig. 1



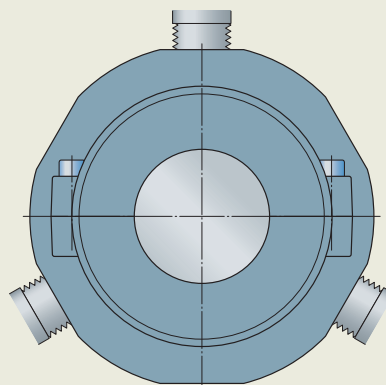
Single boss type



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

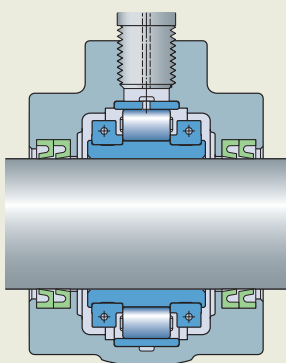
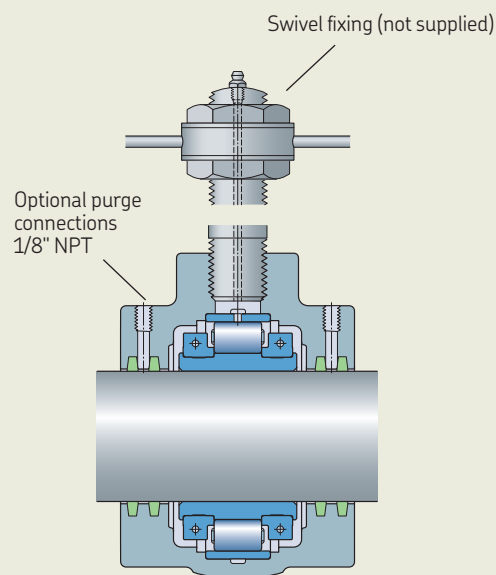


Fig. 3

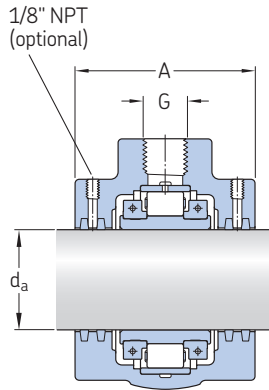
Aligning the bearing



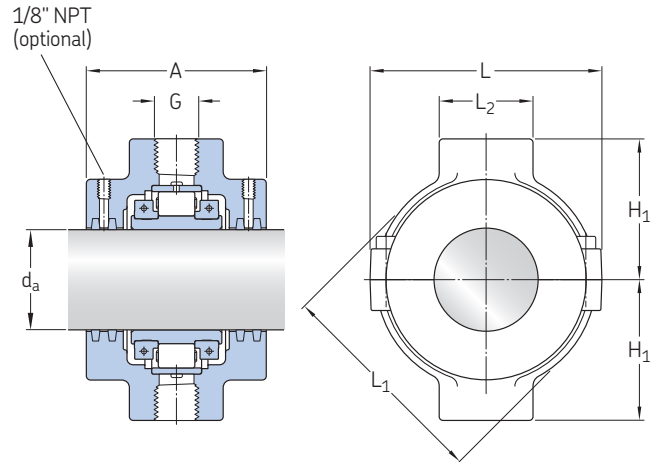
6.1 Single and double boss hanger housings for split cylindrical roller bearings

d_a 40 – 125 mm

1 1/2 – 5 in.



Single boss



Double boss

Shaft diameter d_a	Designations ¹⁾		Dimensions						Mass Housing ²⁾
	Housing	Bearing	A	H ₁	L	L ₁	L ₂	G	
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	100B212EX	108	82	139	134	50	1"–8 UNC	4,7
	01H212	01EB212EX	130	92	162	158	50	1"–8 UNC	8
70	100H70M	100B70MEX	108	82	139	134	50	M30	4,7
	01H70M	01EB70MEX	130	92	162	158	50	M30	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⁾		Dimensions						Mass Housing ²⁾
	Housing	Bearing	A	H ₁	L	L ₁	L ₂	G	
mm/in.	—		mm						kg
2 15/16	100H215 01H215	100B215EX 01EB215EX	108	82	139	134	50	1" – 8 UNC	4,7
			130	92	162	158	50	1" – 8 UNC	8
75	100H75M 01H75M	100B75MEX 01EB75MEX	108	82	139	134	50	M30	4,7
			130	92	162	158	50	M30	8
3	100H300 01H300	100B300EX 01EB300EX	108	82	139	134	50	1" – 8 UNC	4,7
			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 01H85M	100B85MEX 01EB85MEX	130	92	162	158	50	M30	8
			146	114	188	178	76	M36	12
3 7/16	100H307 01H307	100B307EX 01EB307EX	130	92	162	158	50	1" – 8 UNC	8
			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 01H100M	100B100MEX 01EB100MEX	146	114	188	178	76	M36	12
			152	127	204	203	76	M36	14
3 15/16	100H315 01H315	100B315EX 01EB315EX	146	114	188	178	76	1 1/2" – 6 UNC	12
			152	127	204	203	76	1 1/2" – 6 UNC	14
4	100H400 01H400	100B400EX 01EB400EX	146	114	188	178	76	1 1/2" – 6 UNC	12
			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 01H110M	100B110MEX 01EB110MEX	152	127	204	203	76	M36	14
			156	140	226	232	76	M36	16,5
4 7/16	100H407 01H407	100B407EX 01EB407EX	152	127	204	203	76	1 1/2" – 6 UNC	14
			156	140	226	232	76	1 1/2" – 6 UNC	16,5
4 1/2	100H408 01H408	100B408EX 01EB408EX	152	127	204	203	76	1 1/2" – 6 UNC	14
			156	140	226	232	76	1 1/2" – 6 UNC	16,5
115	100H115M 01H115M	100B115MEX 01EB115MEX	152	127	204	203	76	M36	14
			156	140	226	232	76	M36	16,5
120	100H120M 01H120M	100B120MEX 01EB120MEX	156	140	226	232	76	M36	16,5
			162	156	238	276	76	M36	22,5
125	100H125M 01H125M	100B125MEX 01EB125MEX	156	140	226	232	76	M36	16,5
			162	156	238	276	76	M36	22,5
4 15/16	100H415 01H415	100B415EX 01EB415EX	156	140	226	232	76	1 1/2" – 6 UNC	16,5
			162	156	238	276	76	1 1/2" – 6 UNC	22,5
5	100H500 01H500	100B500EX 01EB500EX	156	140	226	232	76	1 1/2" – 6 UNC	16,5
			162	156	238	276	76	1 1/2" – 6 UNC	22,5

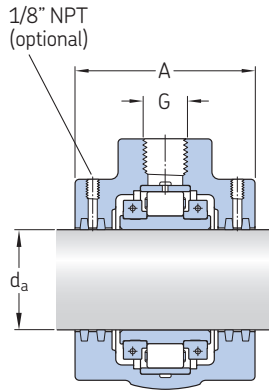
¹⁾ Only basic designations are shown. Housings are supplied with double felt seals as standard. For double boss units, add the designation suffix DOUBLE BOSS e.g. 01H207 DOUBLE BOSS. The designation suffix EX refers to bearings in the non-locating position. Other bearing options and alternative seals 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.

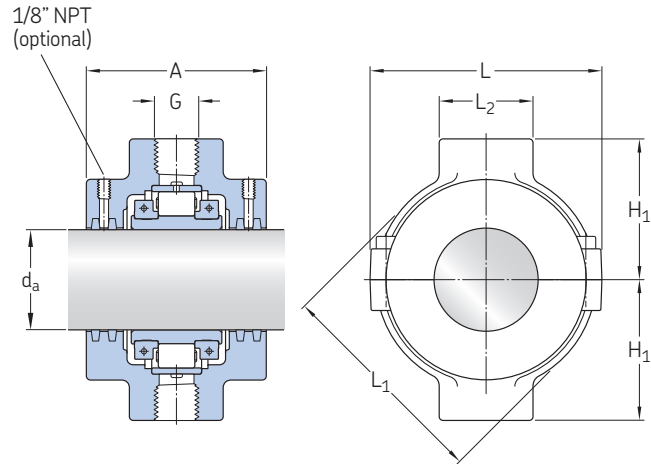
6.1 Single and double boss hanger housings for split cylindrical roller bearings

d_a 130 – 150 mm

6 ³/₁₆ – 6 in.



Single boss



Double boss

Shaft diameter d_a	Designations ¹⁾		Dimensions						Mass Housing ²⁾
	Housing	Bearing	A	H ₁	L	L ₁	L ₂	G	
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
	100H507	100B507EX	162	156	238	276	76	1 1/2" – 6 UNC	22,5
5 ⁷ / ₁₆	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

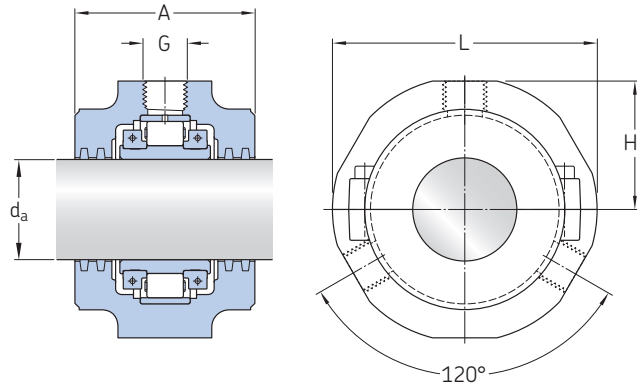
¹⁾ Only basic designations are shown. Housings are supplied with double felt seals as standard. For double boss units, add the designation suffix DOUBLE BOSS e.g. 01H207 DOUBLE BOSS. The designation suffix EX refers to bearings in the non-locating position. Other bearing options and alternative seals 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				Mass Housing
			A	H ₁	L	G	
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.

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.

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**.

Fig. 1

Push type take-up housing

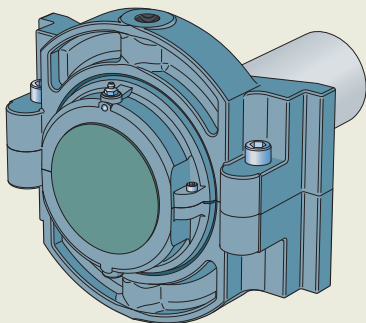


Fig. 2

Tension type take-up housing

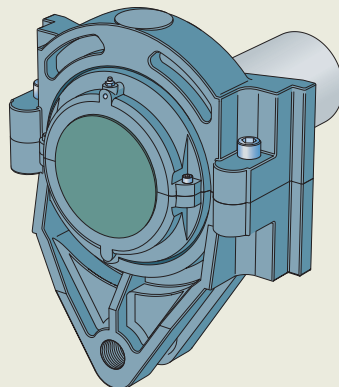
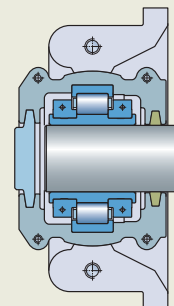


Fig. 3

Shaft end design

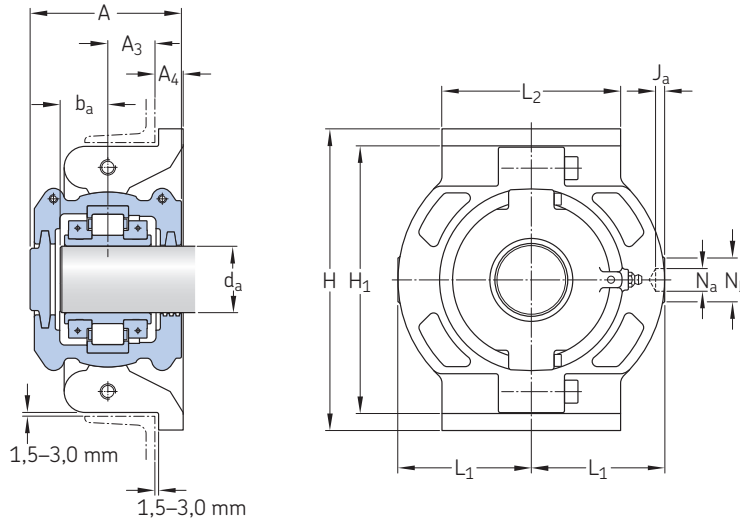


$d_a \leq 90 \text{ mm or } 3 \frac{1}{2} \text{ in.}$

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

d_a 35 – 60 mm

1 3/16 – 2 7/16 in.



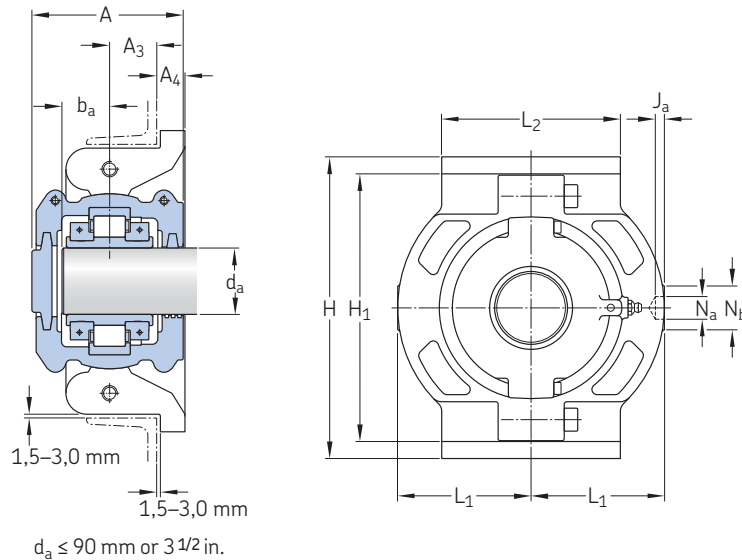
Shaft diameter d_a	Designations ¹⁾		Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions											Mass Housing
	Housing	Bearing			A	A ₃	A ₄	b _a	H	H ₁	L ₁	L ₂	N _a	N _b	J _a	
mm/in.	–	–	–	–	mm											kg
1 3/16	TP01	01EB103GR	–	01C1GR	86	29	14	27	172	153	76	102	13	25	5	6
1 1/4	TP01	01EB104GR	–	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
	TP04	02EB55MGR	02C55MGR	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.



Shaft diameter d_a	Designations ¹⁾		Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions											Mass Housing
	Housing	Bearing			A	A ₃	A ₄	b _a	H	H ₁	L ₁	L ₂	N _a	N _b	J _a	
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	114	40	22	35	266	229	114	152	16	41	6	17
	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	114	40	22	35	266	229	114	152	16	41	6	17
	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.

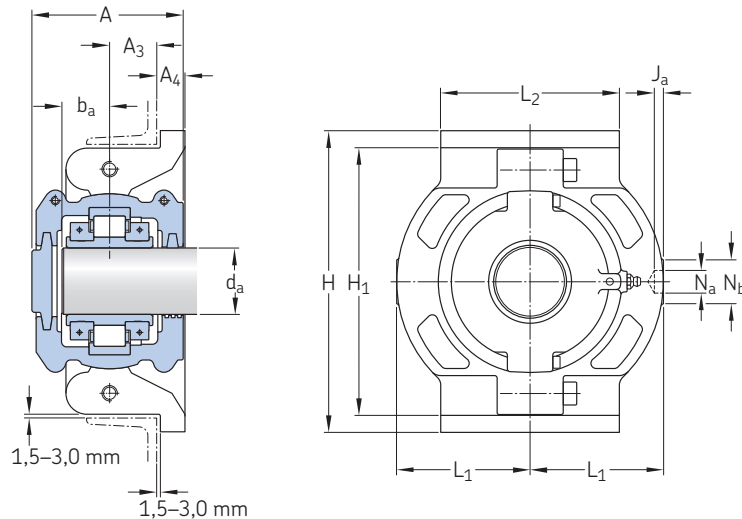
Shaft diameter d _a	Designations ¹⁾		Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions											Mass Housing
	Housing	Bearing			A	A ₃	A ₄	b _a	H	H ₁	L ₁	L ₂	N _a	N _b	J _a	
mm/in.	–				mm											kg
3 7/16	TP04	100B307GR	100C307GR	100C4GR	114	40	22	35	266	229	114	152	16	41	6	17
	TP05	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.



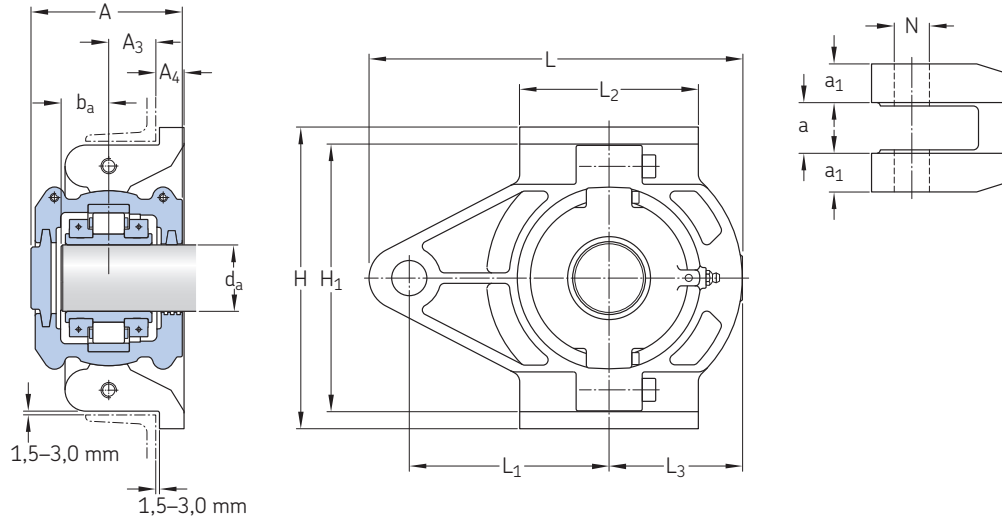
Shaft diameter d_a	Designations ¹⁾		Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions										Mass Housing
	Housing	Bearing			A	A ₃	A ₄	H	H ₁	L ₁	L ₂	N _a	N _b	J _a	
mm/in.	–				mm										kg
130	TP07	100B130MGR	100C130MGR	100C7GR	142	48	22	382	343	162	216	19	70	6	42
	TP08	01EB130MGR	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.



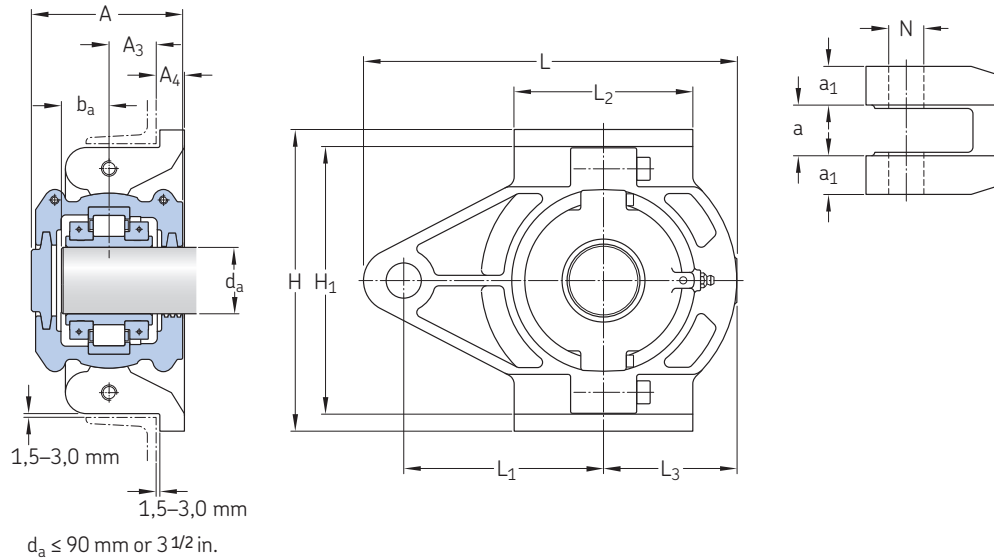
Shaft diameter d _a	Designations ¹⁾		Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions														Mass Hous- ing
	Housing	Bearing			A	A ₃	A ₄	a	a ₁	b _a	H	H ₁	L	L ₁	L ₂	L ₃	N		
mm/in.	–				mm														kg
1 3/16	TT01	01EB103GR	–	01C1GR	86	29	14	25	24	27	172	153	216	114	102	76	20	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.



Shaft diameter d _a	Designations ¹⁾		Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions														Mass Hous- ing
	Housing	Bearing			A	A ₃	A ₄	a	a ₁	b _a	H	H ₁	L	L ₁	L ₂	L ₃	N		
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.

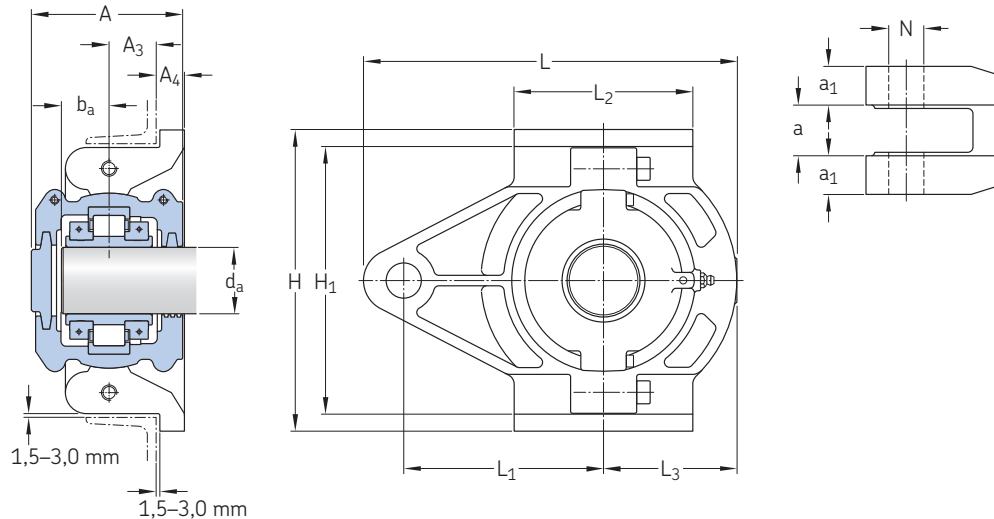
Shaft diameter d _a	Designations ¹⁾		Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions													Mass Hous- ing
	Housing	Bearing			A	A ₃	A ₄	a	a ₁	b _a	H	H ₁	L	L ₁	L ₂	L ₃	N	
mm/in.	—				mm													kg
3 7/16	TT04	100B307GR	100C307GR	100C4GR	114	40	22	30	32	35	266	229	305	158	152	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⁾		Cartridge with felt seals	Cartridge for labyrinth seals	Dimensions												Mass Housing
	Housing	Bearing			A	A ₃	A ₄	a	a ₁	H	H ₁	L	L ₁	L ₂	L ₃	N	
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 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.

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

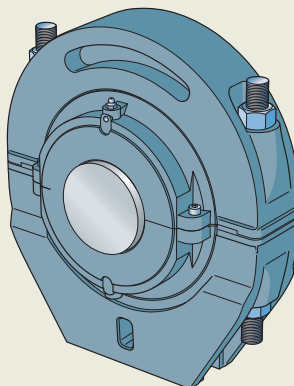
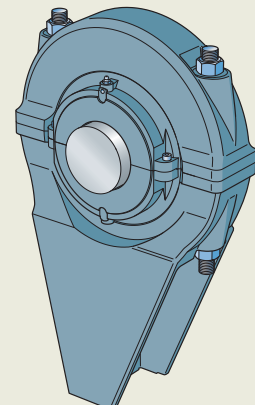


Fig. 2

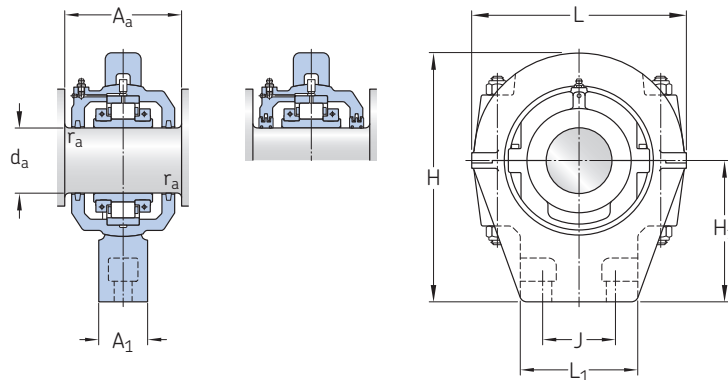
Shoe type rod end housing



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						Abutment dimensions		Bolts G	Mass Unit
			A_1	H	H_1	L	L_1	J	A_a	r_a		
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.

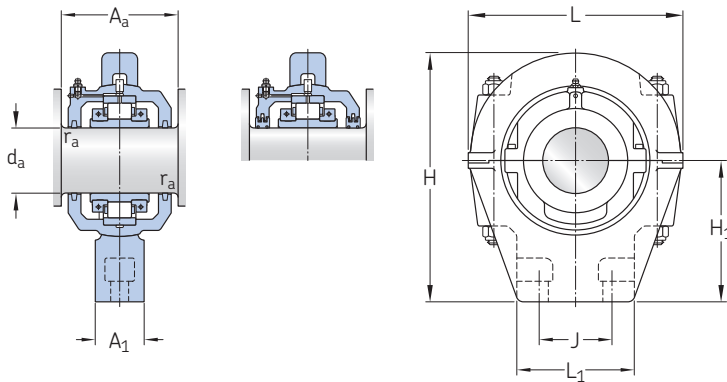
²⁾ Reduced clearance bearings are standard specification for use with rod ends.

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						Abutment dimensions		Bolts G	Mass Unit
			A_1	H	H_1	L	L_1	J	A_a	r_a		
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						Abutment dimensions		Bolts G	Mass Unit
			A ₁	H	H ₁	L	L ₁	J	A _a	r _a		
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.

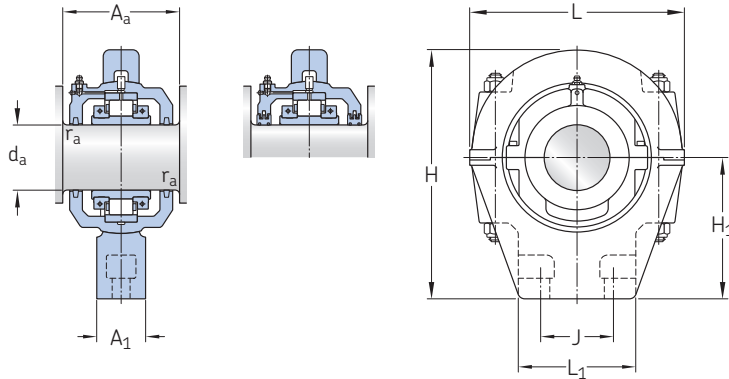
²⁾ Reduced clearance bearings are standard specification for use with rod ends.

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						Abutment dimensions		Bolts G	Mass Unit
			A_1	H	H_1	L	L_1	J	A_a	r_a		
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

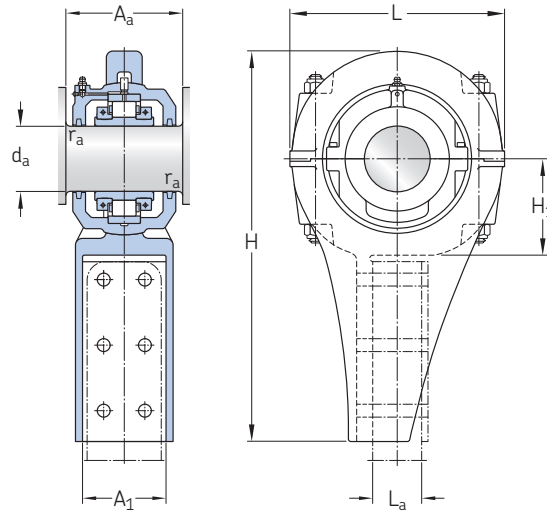
¹⁾ Only the basic designations are shown. For housings with matched cartridge for labyrinth seals, contact SKF.

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					Abutment dimensions		Mass Unit
			$A_1^{3)}$	H	H_1	L	$L_a^{3)}$	A_a	r_a	
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

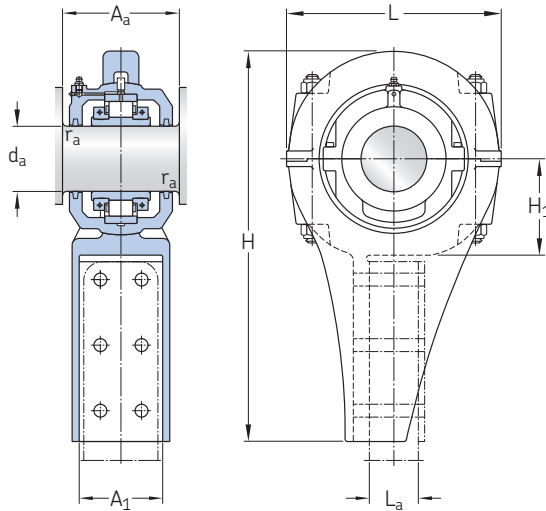
¹⁾ Only the basic designations are shown. For housings with matched cartridge for labyrinth seals, contact SKF.

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					Abutment dimensions		Mass Unit
			$A_1^{3)}$	H	H_1	L	$L_a^{3)}$	A_a	r_a	
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					Abutment dimensions		Mass Unit
			A ₁ ³⁾	H	H ₁	L	L _a ³⁾	A _a	r _a	
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.

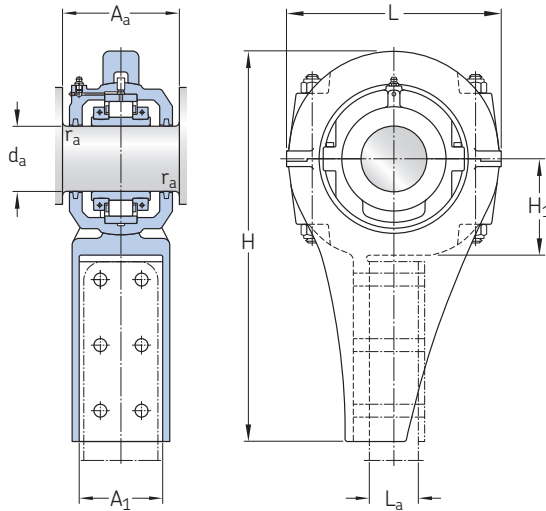
²⁾ Reduced clearance bearings are standard specification for use with rod ends.

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					Abutment dimensions		Mass Unit
			A_1 ³⁾	H	H_1	L	L_a ³⁾	A_a	r_a	
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					Abutment dimensions		Mass Unit
			A ₁ ³⁾	H	H ₁	L	L _a ³⁾	A _a	r _a	
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
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Size identification¹⁾

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/Locating²⁾

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
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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

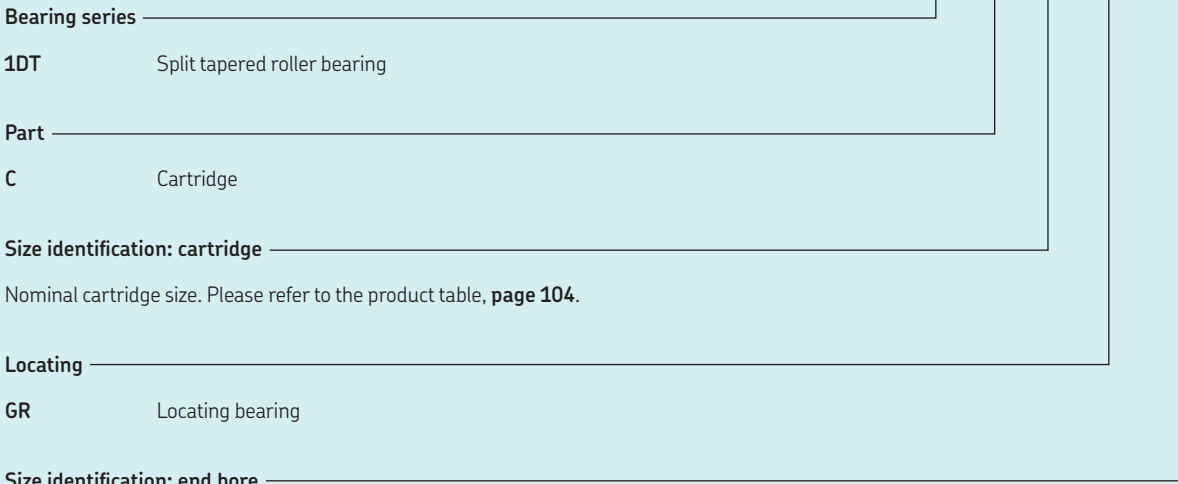
EX	Non-locating bearing
GR	Locating bearing

Suffixes

BOBP	Bolt-on end cover
BOBT	Bolt-on end cover with a thrust bearing
BP/BT/BPTL/BTTL	Refer to <i>Designation system for end covers</i> , 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



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	35 mm
to	
160M	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	1 ³ / ₁₆ in.
to	
600	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

