

SKF Food Line ball bearing units



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SKF Food Line ball bearing units

A complete range of relubrication-free solutions supporting food safety programs

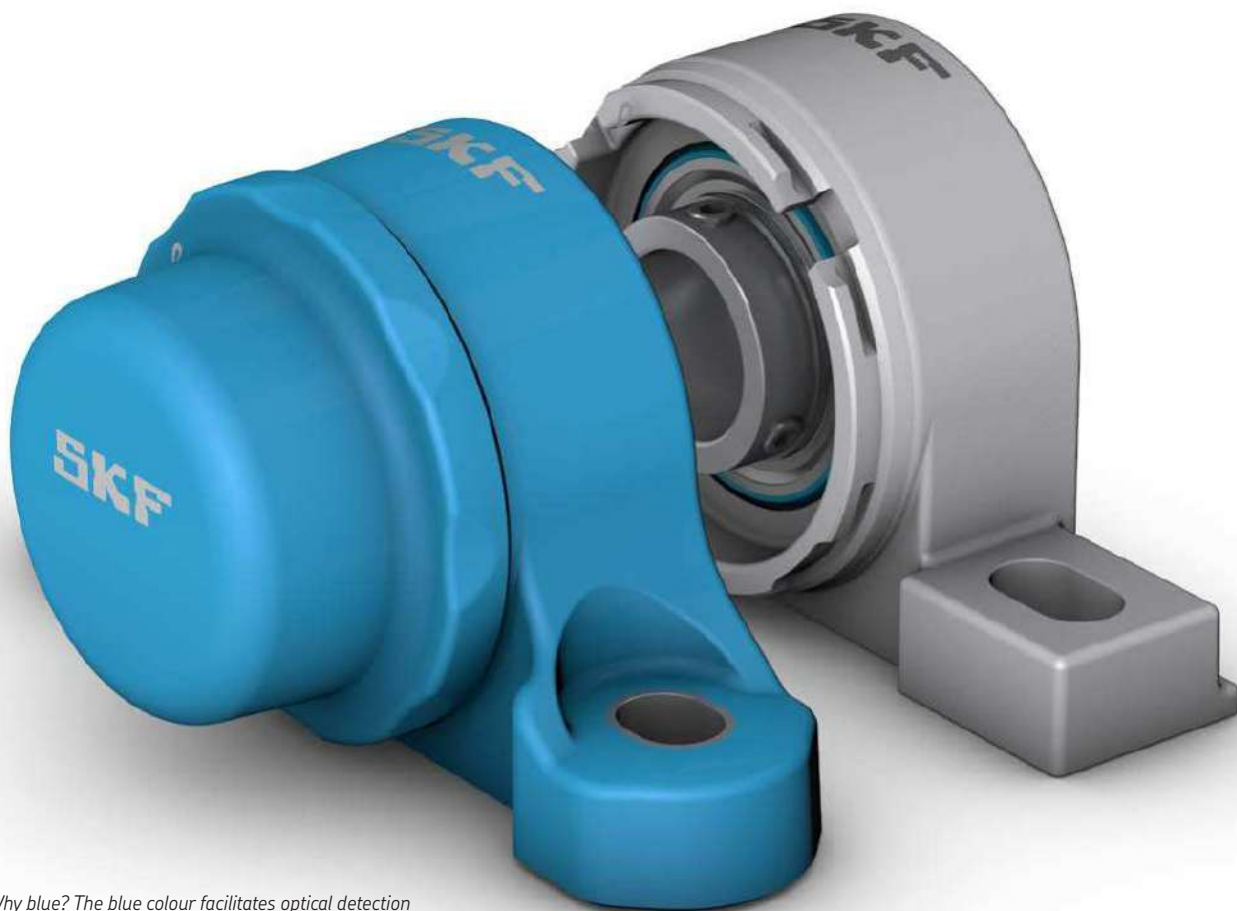
Food and beverage processing is a particularly challenging industry for machinery operations. Strict cleaning regimes for eliminating contaminants and reducing the spread of bacteria mean the machinery will be frequently exposed to pressure washdowns with caustic, antibacterial cleansing agents.

The SKF Food Line ball bearing units offer a complete range of bearing unit solutions for such demanding environments. Lubricated for life and designed to withstand frequent washdowns, the new bearing units solve many of the problems resulting from traditional maintenance.

More importantly, they provide a solution to many food safety issues. With food recalls on the rise and safety regulations becoming stricter globally, proactive food safety programs have become the norm.

All SKF Food Line ball bearing units are specifically developed to support these proactive food safety programs. They incorporate SKF's latest advancements in hygienic design and bearing performance to help the industry reach its most critical goals, such as:

- reducing risks to food safety
- increasing the potential for uptime
- reducing maintenance and related costs
- fostering a sustainable culture



Why blue? The blue colour facilitates optical detection during food processing which greatly reduces the risk of undetected product contamination.

SKF Food Line ball bearing units – Blue Range

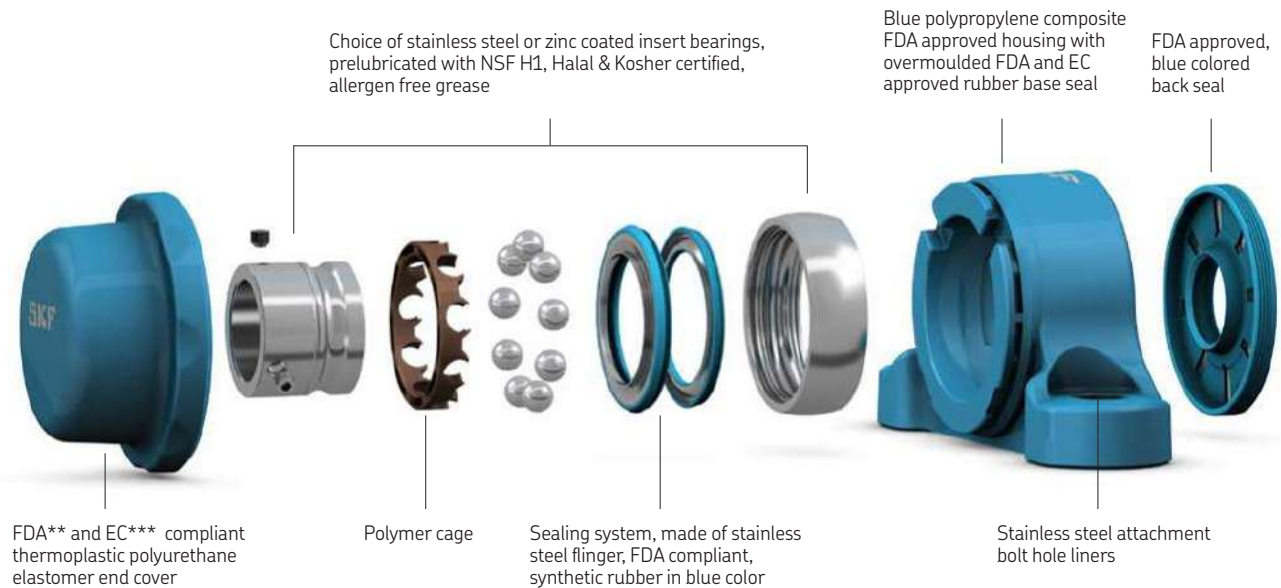
The blue range units have been developed with most of the food safety regulations worldwide – with food grade and corrosion resistant components, using blue materials for optical detectability. Each element has been designed to balance high performance and hygienic standards considering EHEDG* guidelines.

Built from the ground up using foodsafe components and hygienic surface design, the units are developed to proactively eliminate contaminant traps and to reduce the risk of bacteria and allergen development.

The relubrication-free feature and hygienic design contribute to cleaning water savings, as well as a reduced disposal of grease absorbents. This supports an overall preventive culture versus a disposal oriented environmental one.

The blue range units can be supplied as open units or completely sealed units with an end cover and back seal.

The patented bearing sealing system and exceptional grease performance contribute to achieving extended bearing life and high reliability. Designed for relubrication-free operations, the units are thus able to reduce maintenance needs and the related grease and labour costs.



* EHEDG – European hygienic engineering design group – is a forum for food processing equipment manufacturers, users and legislators to discuss issues concerning hygienic design and to stimulate food safety and quality. (source: <https://www.ehedg.org/ehedg/tasks-objectives/>)

** FDA – U.S. Food and Drug Administration

*** EC – European Commission

Hygienic design

Hygienic engineering and a design for food safety comes with a range of specific requirements. The surface geometry and material composition of housings, end covers, and the base and back seals have been designed in line with these requirements.



Hygienic geometry of the housing reduces potential contaminant traps.

The housing is designed to avoid crevices or recesses where food products might become trapped and bacteria might grow.

The sleeves in the mounting bolt holes are not split and the manufacturing mould marks are kept to a minimum.

Further, the housing has no sharp corners. All surfaces are angled to prevent pooling. The flat areas on its exterior are those provided to seat rubberised mounting washers.

These advanced housing shapes provide three different design protections.



All external surfaces of the SKF blue range housing have a smooth surface finish.

Smooth exterior surfaces on the unit are key to achieving good drainability and cleanability – critical factors in preventing bacterial build-up on the exterior of the bearing unit.

The finish is comparable to food industry requirements for the internal surface finish on hygienic tubing and piping.



The construction makes use of over moulding to achieve an effective base seal. (Not available for stainless-steel housings.)

On its base surface or mounting face, a food grade rubber forms the base seal. The rubber is selectively overmoulded with the composite of the housing to create an effective seal.

As the housing is tightened down, the overmoulded rubber deforms – thereby providing a base seal to the mounting frame. Having this as an integral part of the housing design makes it easier to achieve a more consistent and effective sealing function. It also simplifies the installation.

IP69 certified

Hygienic engineering and a design for food safety comes with a range of specific requirements for ingress protection (IP). The surface geometry and material composition of housings, end covers, and the base and back seals have been designed to comply with these requirements. However, only fully sealed SKF Food line ball bearing units are third-party certified for IP69 rating (IEC 60529).



The end cover features positive locking to the housing to help protect against it accidentally being dislodged.

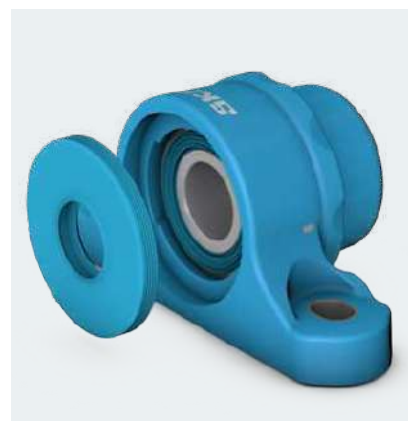
End covers only contribute to hygiene if they remain in place and sealed.



The end cover does not require an additional O-ring, which could easily be displaced during mounting or dismounting.

The end cover material is a high-performance thermoplastic polyurethane elastomer. This material provides a rigid, protective end cover with sufficient flexibility to form an effective interference seal with the housing.

Both the retention and sealing features of this end cover are patented.



The back seal offers an additional double sealing protection, stopping food products from entering the bearing cavity.

The back seal seals with the rotating shaft and statically with the housing. Both sealing features are intrinsic to the detailed design of the back seal and rely on no additional components, such as a spring.

The integral sealing solution of the back seal reduces the risk of damaging components and contaminating the product line. It also eliminates the risk of losing a separate component.

Housings

The SKF blue range housings are strong, yet lightweight and chemically resistant. Their hygienic design features make them ideal for complying with the highest food safety standards.

The housings remain highly stable dimensionally and maintain their expected physical properties despite repeated operational and washdown cycles.

Particularly in wet environments, the housings are more reliable than the ones made with polyamide (PA) and Polybutylene terephthalate (PBT). PA (not geometrically stable) and PBT (subject to hydrolysis if washed down with hot water) are the main two materials commonly utilized in the market.

The composite material for the blue range housings is reinforced polypropylene – a material chosen for its dimensional stability and chemical resistance to detergents and

contaminants (table 1). Importantly, polypropylene naturally repels water, distinguishing it from other conventional composite housing materials.

The housings feature 40% long glass fibre reinforcement. This reduces the tendency of the housings to creep under temperature and load (table 2).

Chemical resistance ratings for polypropylene	
Strong alkalis	Excellent
Weak acids	Excellent
Strong acids	Good
Alcohol	Good

Temperature limit	
For other operating temperature, please contact your local sales representative	
Temperature range	
Insert bearing	–30 °C (–20 °F) 100 °C (210 °F) Up to 120 (250 °F) for short periods
Open Unit (SS*)	–30 °C (–20 °F) 100 °C (210 °F) Up to 120 (250 °F) for short periods
Open Unit (Composite)	–20 °C (–5 °F) 80 °C (175 °F) Up to 100 (210 °F) for short periods
Fully Sealed Unit	–20 °C (–5 °F) 80 °C (175 °F) Up to 100 (210 °F) for short periods

* Stainless steel

The blue range housings are available in the following six designs – all covered by design patents:



Plummer block



Short base plummer block



Oval flanged



3-bolt flanged



Square flanged



Take-up

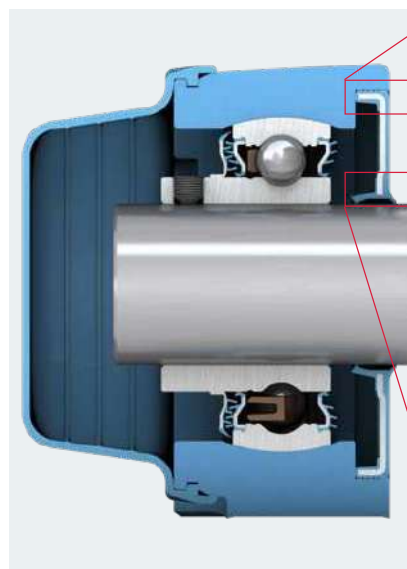
Back seal

The primary purpose of the back seal is to protect the bearing unit from “shaft-side” contamination.

The external face of the back seal has been designed to provide sealing against enclosure wall or panel that has been drilled to allow clearance for the shaft to pass through to the bearing unit.

On a flanged unit back seal can be used to seal the shaft access or clearance hole in order to avoid the creation of a cavity behind the panel, where food debris could otherwise collect.

Both housing types, either composite or Stainless steel, can host a back seal. It can only be mounted in a unit with a dedicated bearing.



Static: Sealing with housing: The rubberized outer diameter of the back seal has an interference fit in the housing bore.



Dynamic: The seal has double contacting lips with sufficient interference to cope with up to 1° misalignment.

End cover

The end cover improves operator safety by covering the shaft and is an additional barrier to the ingress of process material and cleaning agents.

Positive retention to the housing is provided by four circumferential interlocking slots, that require a locked end cover to be rotated before it can be removed.

In the locked position, each of the four “teeth” on the end cover are secured in position by internal housing stops. This helps protect against the end cover being dislodged accidentally or during cleaning.

The resistance to rotation provided by the inter-locking stops must be overcome before the cover can be rotated.

The end cover is designed to be routinely opened for inspection and then re-locked. Both the housing and the end cover feature laser marked lock and unlock symbols, so that the end cover lock status can be easily confirmed.

Twist to lock or to unlock (1/8 turn) with no tools required.

End covers are available in closed and open versions for both composite and stainless steel housings.



The end cover locking mechanism and sealing features are patented.

The housing marker aligns with the end cover symbol (see picture on the right):

- an open circle – end cover unlocked, ready to be removed or locked.
- a filled circle – end cover now correctly locked in position.



End cover resistance

The end cover's ability to resist high pressure cleaning at 70 bar has been tested. Throughout the tests, the end cover remained locked in place, and completely sealed. An inspection of the interior of the end cover on completion of the tests, confirmed no soilings were present.

End cover effectiveness

Repetitive opening and closing that were the equivalent of weekly checks over a four-year period, resulted in no loss of effectiveness of the locking and sealing functions.

Product combinations for process specific zones

In addition to the completely sealed blue range units (suffix DFH), other product combinations are available. For instance, in applications where a fully sealed bearing unit is not required from a food safety perspective, or in environments subject to peak loading. All product combinations feature the same advanced bearing seal arrangement and are supplied lubricated for life with the same highly effective grease, similar to the fully sealed Blue Range bearing units.

Zones with limited risk of contamination

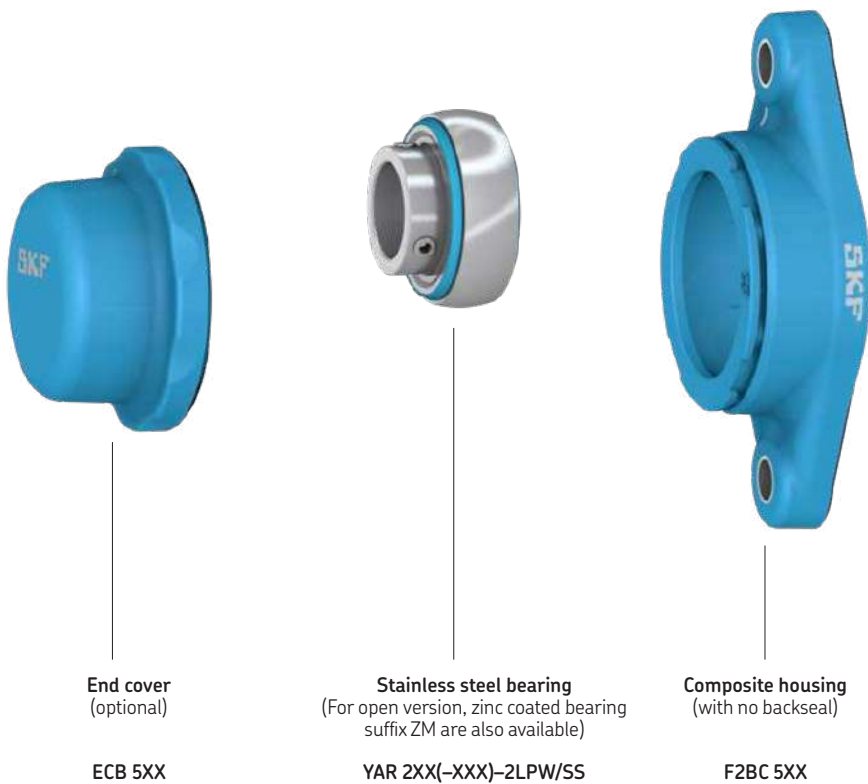
Closed food processing or areas where packaged goods are being handled are typical zones with limited risk of contamination. The SKF Food Line ball bearing units offer high performing solutions for such areas.

These product combinations include a stainless steel insert bearing in the blue, hygienically designed, composite housing with no backseal.

In addition, there is also the option of ordering the blue end cover which improves personnel safety by enclosing the exposed shaft end.

For applications where it is considered acceptable, a zinc coated insert bearing can be substituted for the stainless steel bearing.

Bearings with this coating resist attack from water and acidic or caustic solutions far better than uncoated insert bearings, or bearings with black oxide coatings.



Insert bearings and sealing system

At the heart of each unit is a high-quality corrosion resistant insert bearing with AISI grade 420 stainless steel inner ring, outer ring and balls. The Blue Range bearing units also incorporate a patented bearing sealing system that adopts a radically different approach to preventing damage caused by detergent ingress into the bearing.



The bearing is designed as a single row deep groove ball bearing with a sphered (convex) outer surface to the outer ring. The sphered surface matches a correspondingly sphered, but concave housing bore. The design minimises internal loads on the bearing that would exist if initial misalignment went uncorrected.

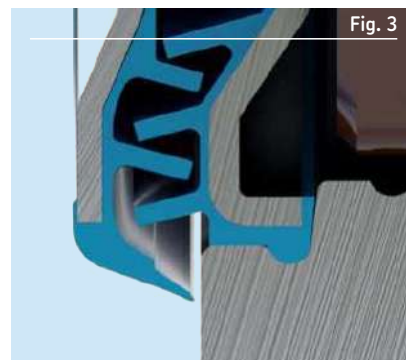
The bearing inner ring is extended on the outboard/locking side. It is locked on the shaft with two stainless steel grub screws that are positioned at 120°, minimising inner ring distortion while maintaining good gripping strength.

The inner ring of the bearing is dimensioned to accommodate the fitting of the back seal, allowing the units to be deployed in applica-

tions with the highest hygienic design and food safety requirements (e.g. open food processing zones). The sealing system consists of a non-contacting seal and a flinger, located at the outer circumference (**fig. 1**). The flinger provides the first barrier against the ingress of both solid and liquid contaminants. This closes against the bearing outer ring when pressure washed.

Next, the design provides a series of internal concentric “gutters” (**fig. 2**) which contain and collect any drops of detergent that penetrate and then guide them, circumferentially, around and away from the bearing (**fig. 3**).

Due to this innovative design, the sealing performance is not limited by the lip contact force against the shaft. This means that the seal can achieve high levels of protection coupled with low energy consumption. The internal gutters are designed to guide detergent away from the bearing. Whereas the aim of a detergent is to penetrate and clean, this novel approach aims to work with rather than against the detergent.



The bearing seals are patented.

Sealing system effectiveness

Accelerated testing has shown that this design provides better sealing performance by actively dealing with detergent ingress rather than seeking to passively exclude it. In testing, detergent droplets were allowed to enter the seal at a rate of 5 drops per minute over a period of 500 hours, after which the internals of the seal were examined.

The post-test analyses confirmed that detergent ingress is typically contained within and channelled away by the first or second of the multiple gutters.

In addition, both the friction torque and the temperature measured from trials of the 206 size are considerably reduced, considering that there is only one contacting lip instead of two.

Applications subject to peak loads

SKF Food Line stainless steel ball bearing housings are cast from AISI 300 series stainless steel, providing good durability and resistance to peak loads.

Cast stainless steel is resistant to aggressive washdown chemicals. The housings are therefore not affected by strong concentrations of chlorine, hydrogen peroxide and many other chemicals. In addition, the housings feature machined flat bases; the absence of any unnecessary crevices or pockets on the external surfaces and a

smooth finish means that the stainless steel housings are easy to clean with no recessed areas for debris and bacteria to accumulate or become trapped.

The SKF Food Line ball bearing units with stainless steel housings are offered with stainless steel inserts only and can be sup-

plied as open units (with a blue end cover as an option), or completely sealed units with end cover and back seal.



The stainless steel housings are available in the following four designs:



Plummer block



Short base plummer block



Oval flanged



Square flanged

Bearing grease

All units are lubricated for life with NSF*-approved, SKF food-grade grease for relubrication-free operation. The high-quality grease is registered by NSF as a category H1 (lubricant acceptable for use in applications where there is potential for incidental food contact).

The SKF food-grade grease has been selected because it provides good resistance to the separation of the base oil from the thickener in the presence of detergent. Greases without this enhanced resistance can separate, resulting in loss of oil past the seal, then loss of lubrication to the seal lips.

This can lead to scoring damage to the mating surface on the inner ring shoulder. The NSF registration confirms this SKF grease fulfils the requirements listed in the FDA's guidelines under 21 CFR section 178.3570.

The technical specifications of this grease are listed in **table 2**.

The grease contains no ingredients from the 14 allergens and allergen categories that must be declared in food products and is also free from traces of beef, pork and chicken. Additional certifications for the grease have been secured from AMERICAN HALAL FOUNDATION (AHF) and 1K Kosher.



Allergens and allergen categories

- Cereals containing gluten, namely: wheat (such as spelt and khorasan wheat), rye, barley, oats
- Crustaceans for example prawns, crabs, lobster, crayfish
- Eggs
- Fish
- Peanuts
- Soybeans
- Milk (including lactose)
- Nuts; namely almonds, hazelnuts, walnuts, cashews, pecan nuts, Brazil nuts, pistachio nuts, macadamia (or Queensland) nuts
- Celery (including celeriac)
- Mustard
- Sesame
- Sulphur dioxide/sulphites, where added and at concentration > 10 mg/kg or 10 mg/L in the finished product. This can be used as a preservative in dried fruit
- Lupin, which includes lupin seeds and flour and can be found in types of bread, pastries and pasta
- Molluscs like, mussels, whelks, oysters, snails and squid

Table 2

Technical specifications of the SKF grease for Food Line ball bearing units

Temperature range ¹⁾	Thickener	Base oil type	NLGI consistency class	Base oil viscosity [mm ² /s]		Grease performance factor (GPF)
-50 0 50 100 150 200 250 °C				at 40 °C (104 °F)	at 100 °C (212 °F)	
-60 30 120 210 300 390 480 °F	Calcium Sulfonate Complex	Mineral	2	113,0	5,8	1,5

1) Refer to SKF catalogue Rolling bearings – the SKF traffic life concept

Grease effectiveness

In SKF testing, droplets of detergent were injected into the test bearings using a peristaltic pump. The results showed a good resistance to degradation in the presence of detergent.



* NSF – National Sanitation Foundation

Mounting instructions

General

To have proper bearing performance and prevent premature failure, all relevant procedures and precautions should be observed when mounting SKF Food Line ball bearing units.

As with all precision components, they should be kept clean and handled carefully when mounting. It is also important to choose the appropriate method of mounting and to use the correct tools.

The method used for mounting SKF Food Line ball bearing units depends on the:

- overall machine design
- bearing housing design
- method used to attach the unit to the shaft.

Tools

To mount or dismount SKF Food Line ball bearing units, the following tools are required:

- a hexagonal key (hex wrench) to tighten or loosen grub (set) screws
- a spanner wrench to tighten or loosen the mounting bolts.

Mounting bolts

To attach SKF Food Line ball bearing units to the support surface and to increase the hygienic safety of the overall product, SKF recommends using hygienic design bolts and rubberised washers, **fig 1**.

In order to assure the ball bearing unit is correctly positioned and the bearing is able to withstand the load in application, SKF advises that you not exceed the machine wall through hole diameters as per **table 4** and **5** and to follow the tightening torque values highlighted in **table 6**.

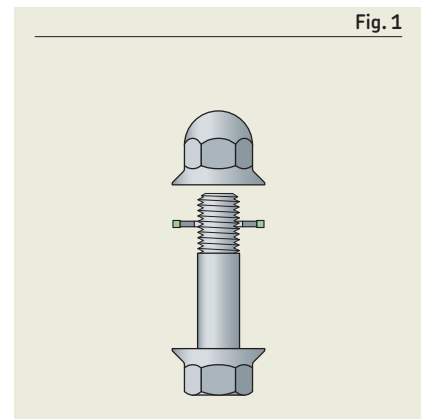


Fig. 1

Table 1

Recommended ISO shaft fits

Operating conditions	Tolerance class ¹⁾
$P > 0,05 C$ and/or high speeds	h6
$0,035 C < P \leq 0,05 C$ and/or low speeds	h7
$0,02 C < P \leq 0,035 C$ and/or low speeds	h8
Simple bearing arrangement or $P \leq 0,02 C$	h9-11

¹⁾ All ISO tolerance classes are valid with the envelope requirements (such as h7E) in accordance with ISO 14405-1.

⚠ WARNING

Failure to carefully follow applicable mounting instructions such as not having the metallic bushes in contact with machine frame on composite housing, may result in premature bearing failure or improper performance. For further information, contact the SKF application engineering service.

Back Seal

Plummer block and flanged units having assembled back seals must be mounted on the shaft or on the machine frame without the end cover in place (**fig. 2**).

The end cover is to be mounted after the unit is bolted to the machine (**fig. 3**).

Shaft tolerances

The recommended fits for SKF Food Line ball bearings are listed in **table 1**. For moderate loads ($0,035 C < P \leq 0,05 C$), the shaft seats should be machined to an ISO h7 tolerance.

For speeds, an ISO h8 shaft tolerance is sufficient, and for very simple applications, ISO h9 and ISO h11 shaft tolerances may be used.

Fig. 4 illustrates the relative position of the upper and lower limits of the most commonly used ISO shaft tolerance classes. The values of these ISO tolerances are listed in **table 2**.

Permissible speed

SKF Food Line ball bearing units should not be operated at speeds above the limiting speeds listed in the product tables (see **table 3**). Permissible speed is also influenced by the shaft diameter tolerance.

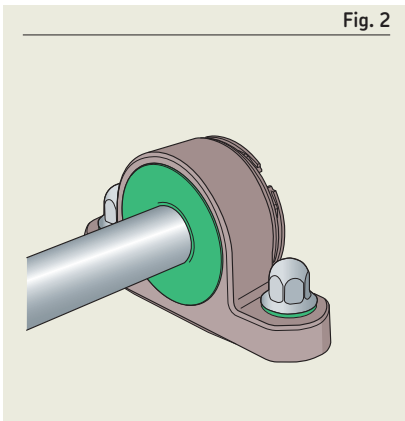


Fig. 2

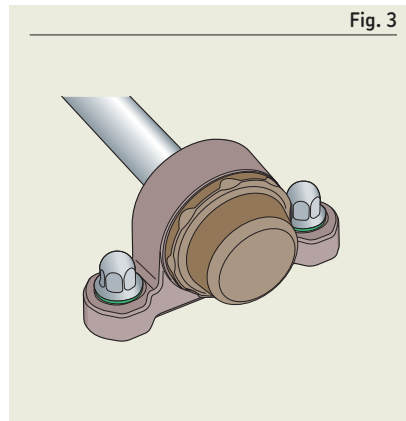


Fig. 3

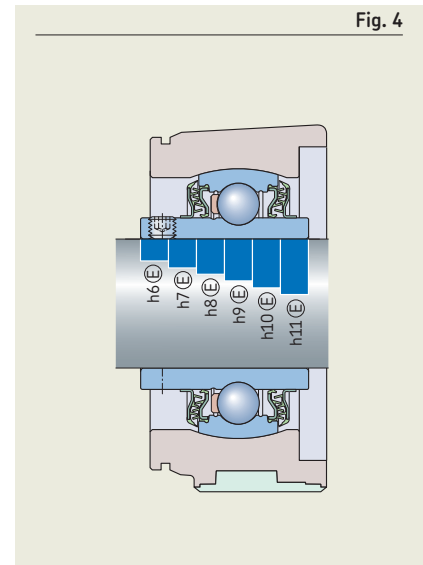


Fig. 4

Table 2

ISO shaft deviations for SKF Food Line

Shaft diameter d	over	incl.	Shaft diameter deviations											
			h6 [Ⓔ]		h7 [Ⓔ]		h8 [Ⓔ]		h9 [Ⓔ]		h10 [Ⓔ]		h11 [Ⓔ]	
			Deviation											
			high	low	high	low	high	low	high	low	high	low	high	low
mm			μm											
10	18		0	-11	0	-18	0	-27	0	-43	0	-70	0	-110
18	30		0	-13	0	-21	0	-33	0	-52	0	-84	0	-130
30	50		0	-16	0	-25	0	-39	0	-62	0	-100	0	-160
50	80		0	-19	0	-30	0	-46	0	-74	0	-120	0	-190
80	120		0	-22	0	-35	0	-54	0	-87	0	-140	0	-220

Table 3

Permissible speeds for SKF Food Line¹⁾

Bearing size ¹⁾	Permissible speeds for shafts machined to tolerance class			
	h7 [Ⓔ]	h8 [Ⓔ]	h9 [Ⓔ]	h11 [Ⓔ]
d	r/min			
–	r/min			
04	5 300	3 800	1 300	850
05	4 500	3 200	1 000	700
06	4 000	2 800	900	630
07	3 400	2 200	750	530
08	3 000	1 900	670	480
09	2 600	1 600	560	400

¹⁾ For example, bearing size 07 includes all bearings based on a Y207 bearings such as YAR 207-2LPW/SS, YAR 207-104-2LPW/SS, YAR 207-106-2LPW/SS, YAR 207-107-2LPW/SS.

For standard permissible speeds for open and DFH units and insert bearings please refer to the product tables starting on page 25.

Assembling units

In cases where SKF Food Line ball bearings and bearing housings are not supplied as a unit, the first step is to assemble the bearing into the housing.

The mounting procedure begins with bolting of the housing to the machine frame (**fig. 5**) and placing the bearing when the housing is fixed.

Insert the bearing into the filling slot in the housing bore (**fig. 6**) and rotate it by hand in the housing until the bearing and housing bore axes align as closely as possible.

NOTE

The bearing must be inserted so that the inner ring grub screws will be on the front (end cover) side of the housing.

With a round piece of wood or pipe of a suitable diameter, swivel the bearing a few turns in each direction. While moving the bearing this way, vary the angle so that it moves in all orientations (**fig. 7**).

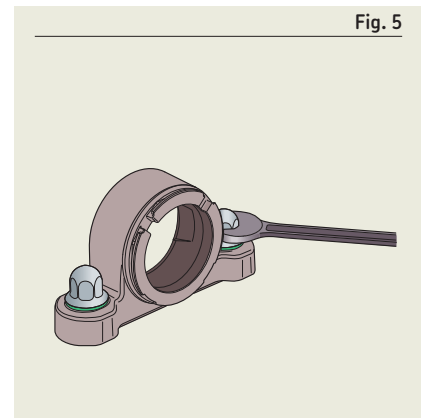


Fig. 5

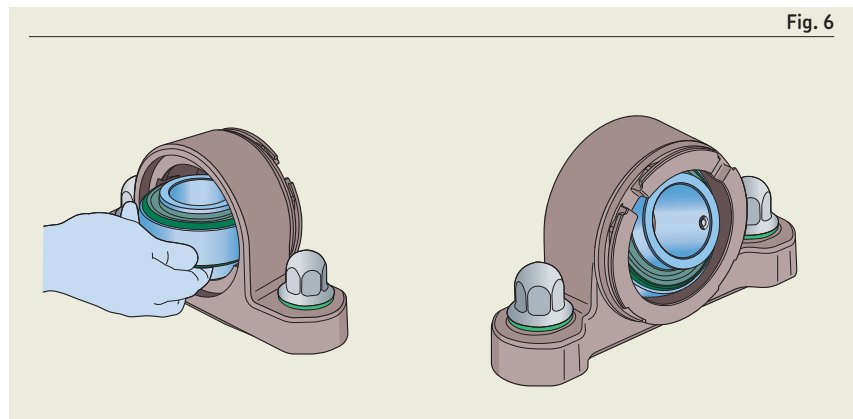


Fig. 6

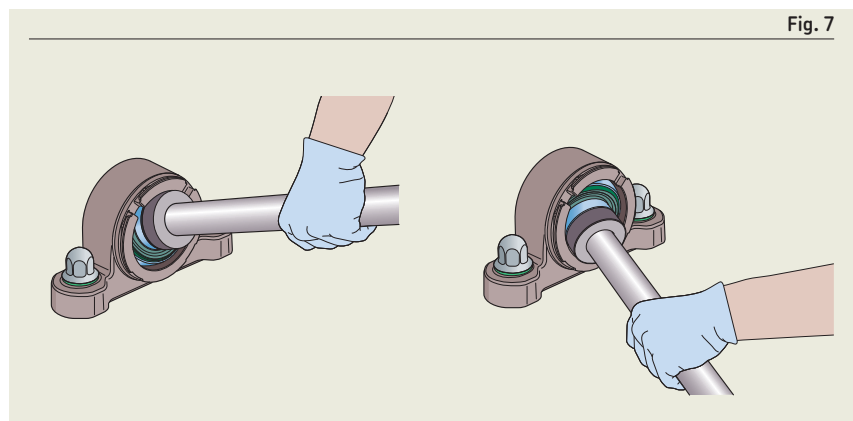


Fig. 7

Alignment

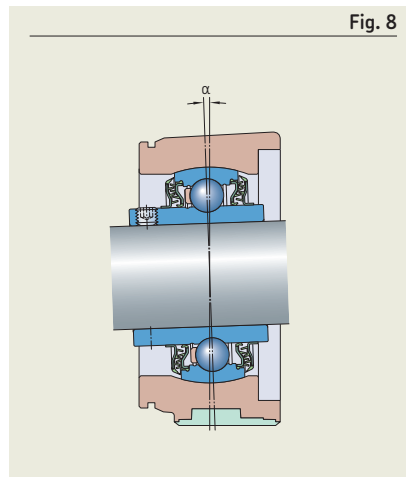
When mounting SKF Food Line ball bearing units it is important for the performance and longevity of the bearing that any misalignment is kept within acceptable limits (**fig. 8**).

In this regard, the sphered nature of the bearing outer ring and the housing bore can accommodate some static misalignment.

Static, as illustrated above, refers to any initial misalignment between housing and shaft/bearing inner ring arising from mounting errors.

For the fully sealed units this is limited, on the back seal, to $\pm 1^\circ$. Housings without back seals can accommodate static misalignment up to $\pm 5^\circ$.

The dynamic misalignment is the same of the DGBB bearing which is only few minutes of arc.



Mounting procedure

1 Remove any burrs on the shaft with emery cloth or a fine file, wipe clean with a cloth. Depending on loads and speeds, define the appropriate shaft tolerance from **tables 1 and 2**, and check the shaft diameter. Mount any components that are on the shaft between the two SKF Food Line ball bearing units. Ensure the supporting surface is flat. The flatness should be within the ISO IT7 tolerance grade and the roughness should be $Ra \leq 12,5 \mu\text{m}$. If the housing requires shims or adjustment, the shims must extend the full length and width of the base (**fig. 9**).

- 2 Slide the SKF Food Line ball bearing unit onto the shaft with grub screws facing outwards and ensure the shaft is correctly positioned (**fig. 10**).
- 3 For plummer block units, fit the attachment bolts but do not tighten them (**fig 11**). For flanged units, fasten them securely to the machine wall. For composite housings, be sure the metallic bushes in bolt areas will be in contact with the machine wall.
- 4 Mount the other SKF Food Line ball bearing unit on the other end of the shaft following the same procedure as the first bearing, as shown in **fig. 9 to 11**.

NOTE
For attachment bolt hole sizes and tightening torque, see **tables 4, 5 and 7**.

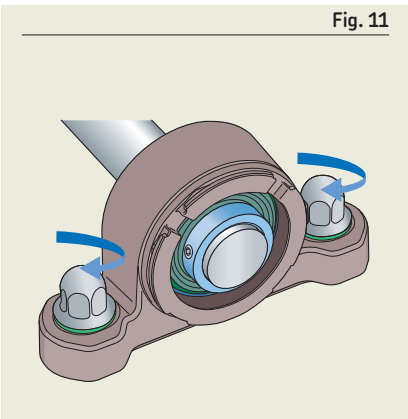
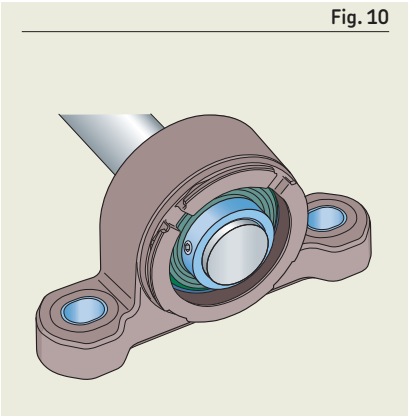
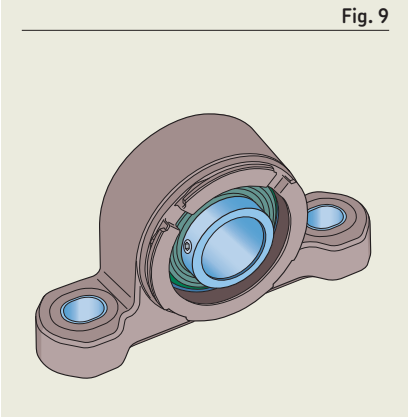


Table 4

Attachment bolt hole sizes according to DIN EN 20273

Units for metric shafts	
Bolt size	Through hole diameter d_m
mm	mm
8	9
10	11
12	13,5
16	17,5

Table 5

Attachment bolt hole sizes according to ASME

Units for inch shafts	
Bolt size	Through hole diameter d_m
in	in
3/8	13/32
7/16	15/32
1/2	9/16
5/8	11/16

- 5 Carefully align both SKF Food Line ball bearing units using the shaft. For all plummer block housings, fully tighten the attachment bolts using a torque wrench as shown in **fig. 12** to the tightening torque values shown in **table 7, page 20**. For flanged housings, securely fasten the second unit to the machine wall (**fig. 13**).
- 6 Align the shaft in the bearing arrangement axially and, if possible, rotate the shaft a few times. Tighten the inner ring grub screw of both units, **fig. 14** and **15**, to the tightening torque indicated in **table 6**.

- 7 If applicable, mount the end cover(s).

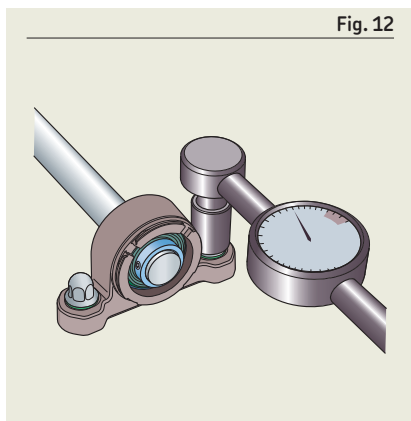


Fig. 12

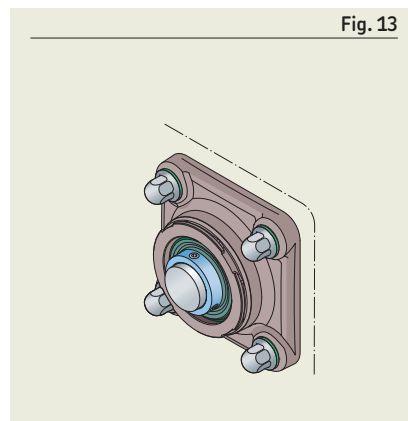


Fig. 13

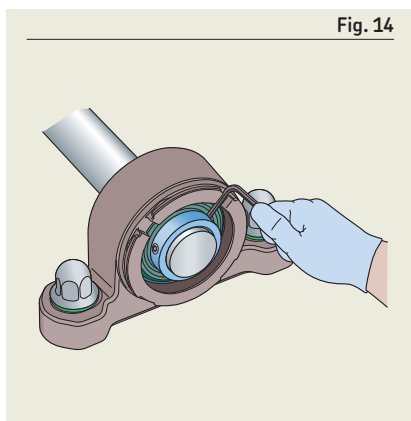


Fig. 14

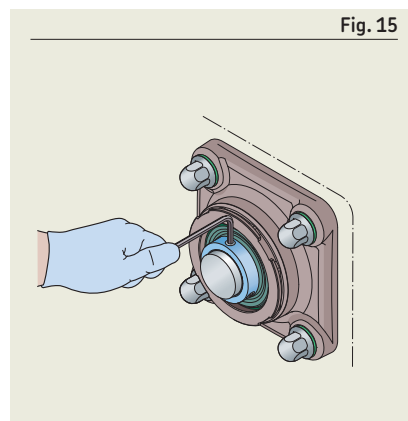


Fig. 15

Table 6

Hexagonal keys to tighten inner ring grub screws – sizes and tightening torque

Bearing size ¹⁾	Bearing or unit with metric bore			Bearing or unit with inch bore		
	screw size	Hexagonal key size N	Tightening torque	screw size	Hexagonal key size N	Tightening torque
–	–	mm	Nm	–	in	Nm
04	M6×0,75	3	4	1/4-28 UNF	1/8	4
05	M6×0,75	3	4	1/4-28 UNF	1/8	4
06	M6×0,75	3	4	1/4-28 UNF	1/8	4
07	M6×0,75	3	4	5/16-24 UNF	5/32	6,5
08	M8×1	4	6,5	5/16-24 UNF	5/32	6,5
09	M10×1	5	16,5	3/8-24 UNF	3/16	16,5

¹⁾ For example, bearing size 07 includes all bearings based on a Y207 bearings such as YAR 207-2LPW/SS, YAR 207-104-2LPW/SS, YAR 207-106-2LPW/SS, YAR 207-107-2LPW/SS.

Table 7

Recommended tightening torque for attachment bolts

Size	Pillow block ball bearing units				Flanged ball bearing units				
	Stainless steel		Composite		Stainless steel	Composite	Stainless steel	Composite	Composite
	Standard base	Short base	Standard base	Short base	Square		Oval		3-bolt-bracket
	Nm								
03	–	–	–	–	–	–	–	–	–
04	25	25	25	25	20	20	25	25	25
05	30	30	30	30	25	25	30	30	30
06	55	45	45	35	30	30	40	40	40
07	70	55	55	40	35	35	60	55	50
08	90	65	60	45	40	40	70	60	55
09	–	–	–	–	–	–	–	–	–
10	–	–	70	55	–	55	–	70	65

End covers

The **product tables 1.1 to 1.13** show the appropriate end cover for each bearing unit and the distance A_5 that the end cover protrudes once mounted on the housing (**fig. 16**). Prior to starting the mounting procedure, check if the A_5 dimension is suitable for your application arrangement.



Open and closed ECB end cover with TPU seal material

NOTE

The end cover is sold separately in all the units except for the DFH (fully sealed) solution.

Blue end covers (composite housings)

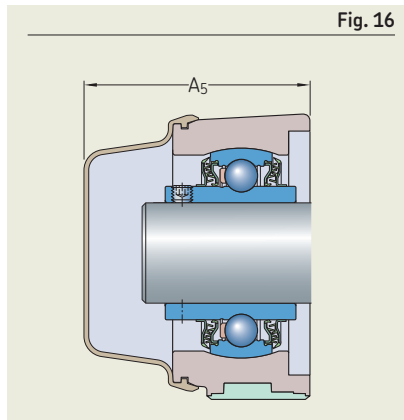


Fig. 16

WARNING

Rotating parts hazard.

To avoid serious injury, do not mount or dismount an end cover unless the shaft has stopped rotating and the machine has been locked out or the shaft has been secured so it can't rotate.

Mounting/dismounting instructions

- 1 Remove the end cover from its packaging.
- 2 Identify the alignment mark on the housing and orientate the end cover so that the alignment mark is aligned with the "open circle" marking on the end cover:



- 3 Engage and rotate the end cover, $1/8$ of a turn until the housing marker is now aligned to the closed circle marking on the end cover:



The end cover is now in the mounted position.

- 4 To dismount the end cover, rotate the end cover back so that the housing marker and the open circle align, then pull away the cover.

The end cover locking mechanism and sealing features are patented.

Back seal

The shaft surface where the back seal is positioned must have a surface finish $Ra < 0,6$ microns.

It is highly recommended that the space between the contact seal and its excluder seals be filled with a certified NSF1 grease to minimize the seal wear and optimize its life.



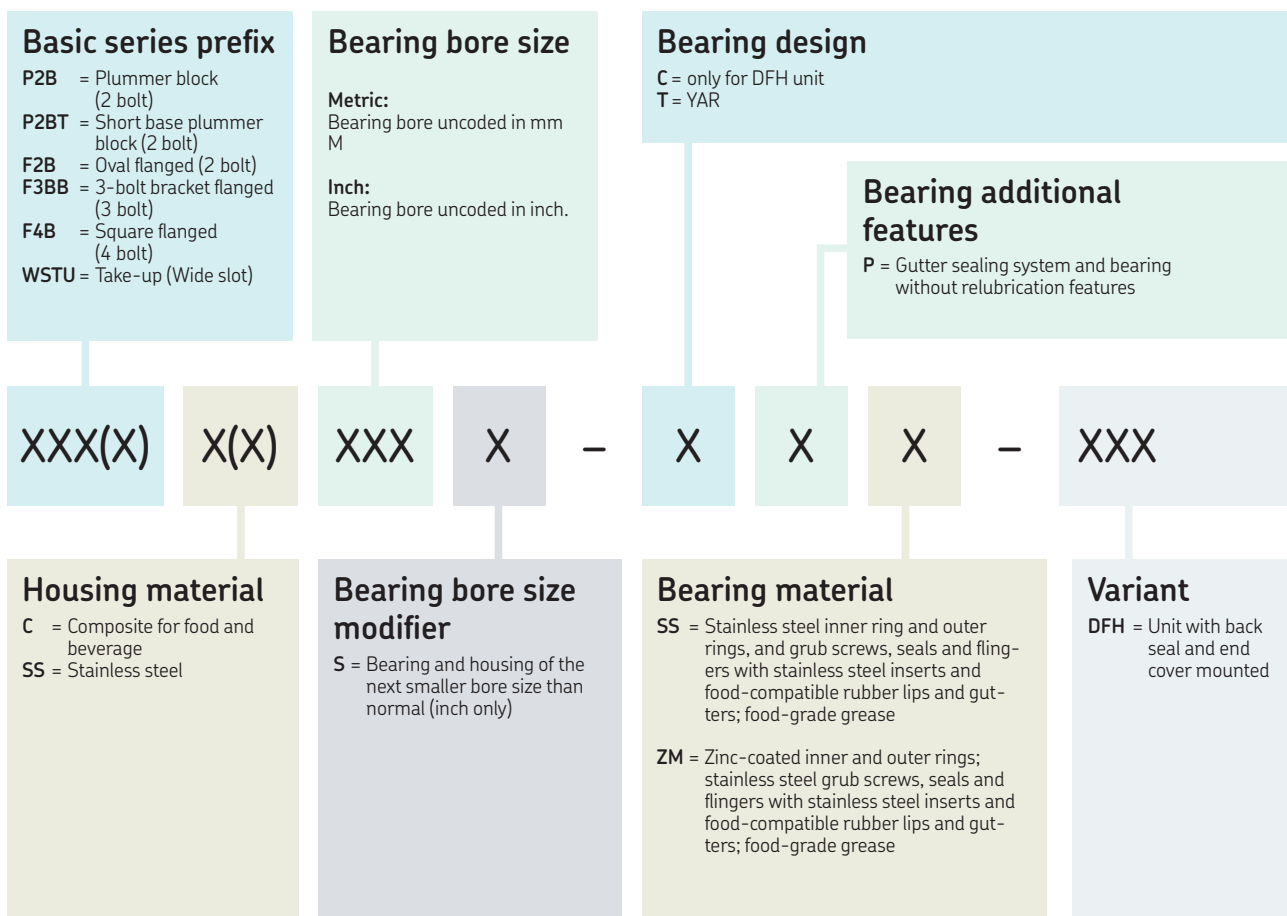
Product data

Food and beverages designation rules – Units

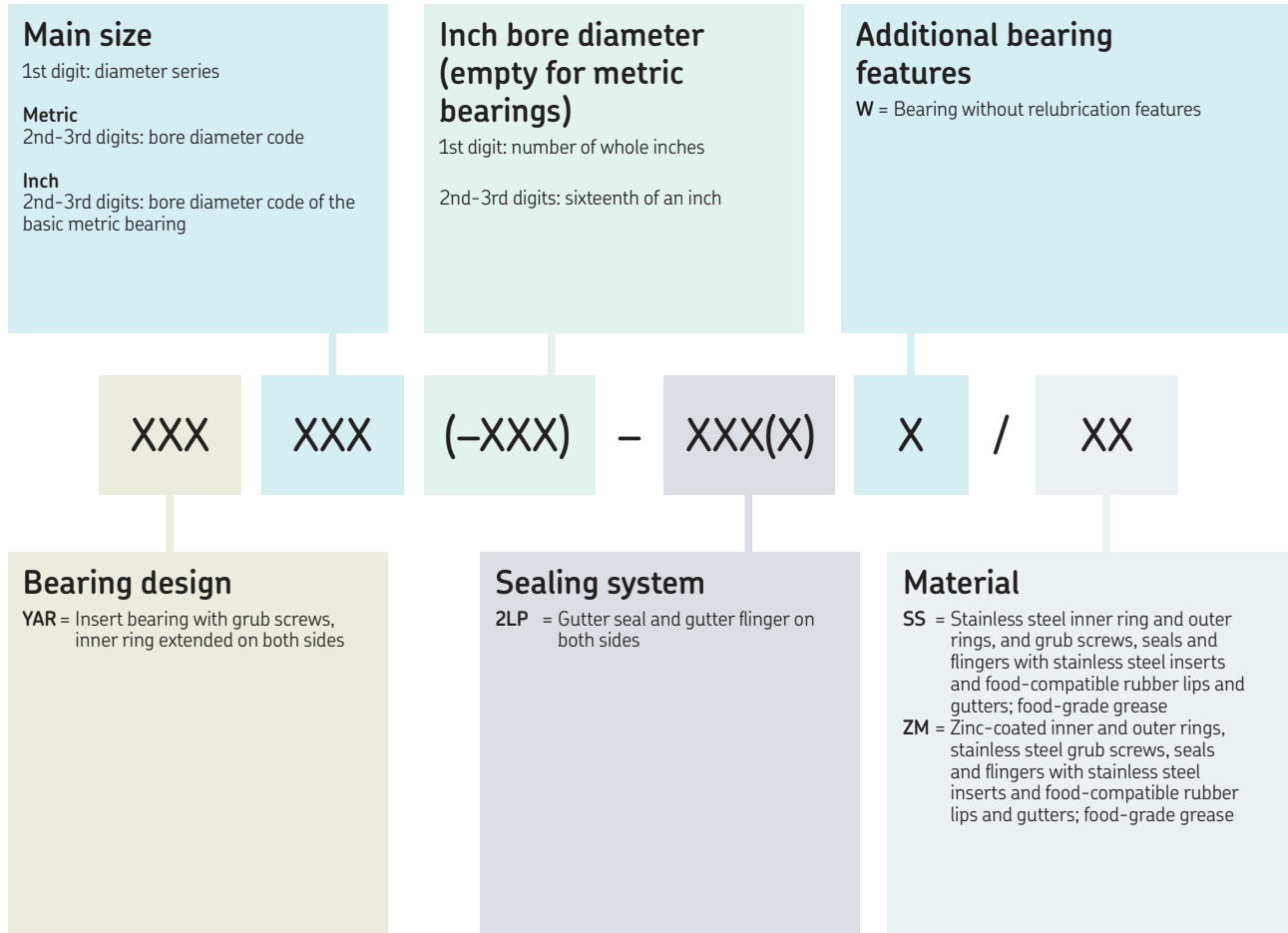
The new designation systems for the SKF Food Line insert bearings and ball bearing units have been completely renovated to be user friendly for a fast as well as clear identification, and to be modular so that you can easily follow the customer desired final variant.

More details about the developed nomenclature can be obtained from the designation charts:

- SKF Food Line ball bearing unit designation system (pages 26 to 87)
- SKF Food Line insert bearing designation system (pages 86 to 87)



Food and beverages designation rules – Bearings

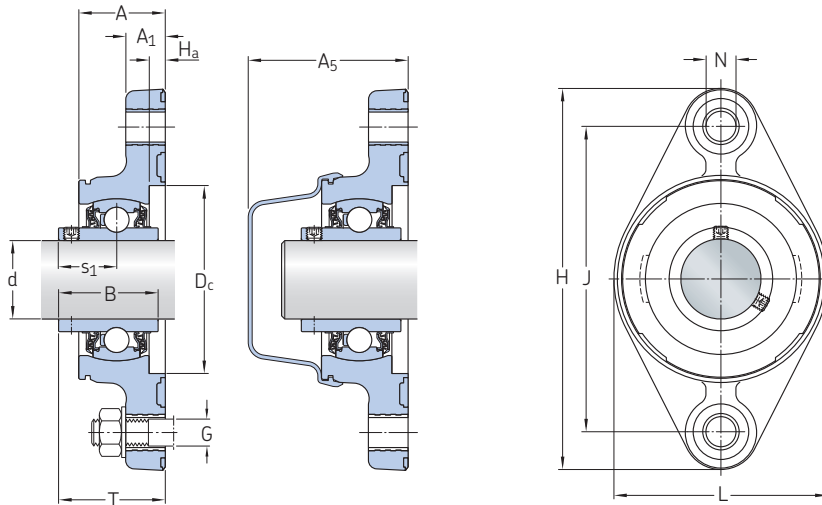




Product tables

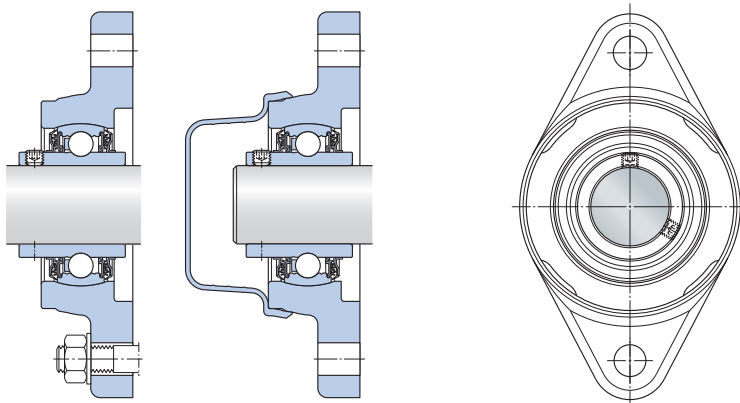
1.1	Oval flanged ball bearing units, metric shafts	26
1.1	Oval flanged ball bearing units, inch shafts	28
1.2	Oval flanged sealed ball bearing units (DFH), metric shafts	32
1.2	Oval flanged sealed ball bearing units (DFH), inch shafts	34
1.3	Square flanged ball bearing units, metric shafts	38
1.3	Square flanged ball bearing units, inch shafts	40
1.4	Square flanged sealed ball bearing units (DFH), metric shafts	44
1.4	Square flanged sealed ball bearing units (DFH), inch shafts	46
1.5	Plummer block ball bearing units, metric shafts	50
1.5	Plummer block ball bearing units, inch shafts	52
1.6	Plummer block sealed ball bearing units (DFH), metric shafts	56
1.6	Plummer block sealed ball bearing units (DFH), inch shafts	58
1.7	3-bolt bracket flanged ball bearing units, metric shafts	60
1.7	3-bolt bracket flanged ball bearing units, inch shafts	62
1.8	3-bolt bracket flanged sealed ball bearing units (DFH), metric shafts	66
1.8	3-bolt bracket flanged sealed ball bearing units (DFH), inch shafts	68
1.9	Short base plummer block (tapped base pillow block) ball bearing units, metric shafts	70
1.9	Short base plummer block (tapped base pillow block) ball bearing units, inch shafts	72
1.10	Short base plummer block (tapped base pillow block) sealed ball bearing units (DFH), metric shafts	76
1.10	Short base plummer block (tapped base pillow block) sealed ball bearing units (DFH), inch shafts	78
1.11	Take-up composite ball bearing units, metric shafts	82
1.11	Take-up composite ball bearing units, inch shafts	84
1.12	Take-up sealed ball bearing units (DFH), metric shafts	88
1.12	Take-up sealed ball bearing units (DFH), inch shafts	90
1.13	Stainless steel and zinc-coated insert bearings, metric shafts	92
1.13	Stainless steel and zinc-coated insert bearings, inch shafts	93

1.1 Oval flanged ball bearing units, metric shafts
d 20 – 50 mm



F2BC (composite housing)

Principal dimensions		Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designations Bearing unit	End cover
d	J	C	C ₀					
mm		kN		kN	r/min	kg	–	
20	89,7	10,8	6,55	0,28	5 000	0,48	F2BSS 20M-TPSS	ECB 504
	90	10,8	6,55	0,28	5 000	0,23	F2BC 20M-TPSS	ECB 504
	90	12,7	6,55	0,28	5 000	0,23	F2BC 20M-TPZM	ECB 504
25	98,8	11,9	7,8	0,335	4 300	0,71	F2BSS 25M-TPSS	ECB 505
	99	11,9	7,8	0,335	4 300	0,29	F2BC 25M-TPSS	ECB 505
	99	14	7,8	0,335	4 300	0,3	F2BC 25M-TPZM	ECB 505
30	116,7	16,3	11,2	0,475	3 800	1	F2BSS 30M-TPSS	ECB 506
	117	16,3	11,2	0,475	3 800	0,44	F2BC 30M-TPSS	ECB 506
	117	19,5	11,2	0,475	3 800	0,44	F2BC 30M-TPZM	ECB 506
35	130	21,6	15,3	0,655	3 200	0,61	F2BC 35M-TPSS	ECB 507
	130	25,5	15,3	0,655	3 200	0,63	F2BC 35M-TPZM	ECB 507
	130,2	21,6	15,3	0,655	3 200	1,3	F2BSS 35M-TPSS	ECB 507
40	143,7	24,7	19	0,8	2 800	1,7	F2BSS 40M-TPSS	ECB 508
	144	24,7	19	0,8	2 800	0,78	F2BC 40M-TPSS	ECB 508
	144	30,7	19	0,8	2 800	0,8	F2BC 40M-TPZM	ECB 508
50	157	29,6	23,2	0,98	2 200	1	F2BC 50M-TPSS	ECB 510
	157	35,1	23,2	0,98	2 200	1	F2BC 50M-TPZM	ECB 510



F2BSS (stainless steel housing)

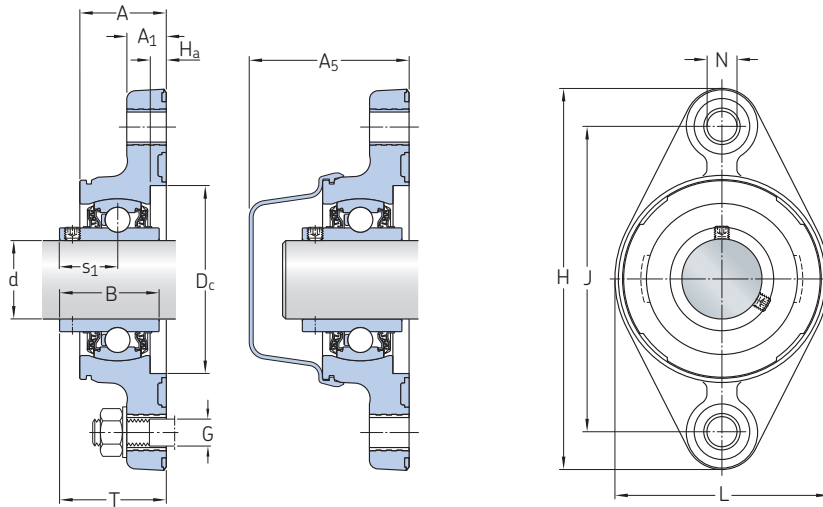
Dimensions

d	A	A ₁	A ₅	B	D _C	H	H _a	L	N	G	s ₁	T
mm												
20	25,8	11,1	52,9	31	52	111,9	6	61,5	11,1	10	18,3	33,6
	27	15	54,3	31	52	119	6	62	11,5	10	18,3	35
	27	15	54,3	31	52	119	6	62	11,5	10	18,3	35
25	29,4	13,5	56	34,1	62	123,8	6	69,3	12,7	10	19,8	36,5
	29	15	55,8	34,1	62	128	6	72	11,5	10	19,8	37
	29	15	55,8	34,1	62	128	6	72	11,5	10	19,8	37
30	34,1	13,5	62,2	38,1	72	141,3	6	79,1	12,7	10	22,2	42
	33	15	61,3	38,1	72	146	6	82	11,5	10	22,2	40,9
	33	15	61,3	38,1	72	146	6	82	11,5	10	22,2	40,9
35	36	17	64,8	42,9	82	164	6	92	14,2	12	25,4	45
	36	17	64,8	42,9	82	164	6	92	14,2	12	25,4	45,1
	35,7	14,3	64,3	42,9	82	155,6	6	89,5	14,3	12	25,4	46
40	38,9	14,3	68,8	49,2	88	171,5	6	95,1	14,3	12	30,2	53,2
	38	17	68,1	49,2	88	178	6	98	14,2	12	30,2	50,9
	38	17	68,1	49,2	88	178	6	98	14,2	12	30,2	50,9
50	42	19	74,2	51,6	98	199	6	107	17,5	16	32,6	53,8
	42	19	74,2	51,6	98	199	6	107	17,5	16	32,6	53,8

C Product data

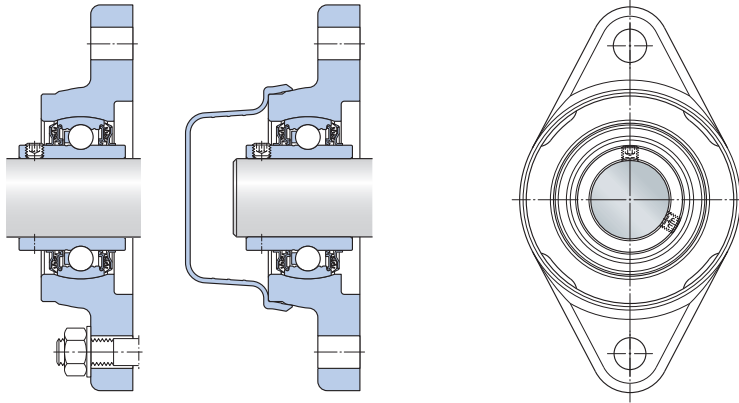
1.1 Oval flanged ball bearing units, inch shafts

d $\frac{3}{4}$ – $1\frac{1}{4}$ in
19,05 – 31,75 mm



F2BC (composite housing)

Principal dimensions		Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designations	End cover
d	J	C	C ₀	P _u	with shaft tolerance h6		Bearing unit	
in/mm		lbf/kN		lbf/kN	r/min	lb/kg	–	
$\frac{3}{4}$ 19,05	3,53	2 430	1 470	62,9	5 000	1,05	F2BSS 012-TPSS	ECB 504
	89,7	10,8	6,55	0,28		0,48		
	3,54	2 430	1 470	62,9	5 000	0,53	F2BC 012-TPSS	ECB 504
	90	10,8	6,55	0,28		0,24		
	3,54	2 860	1 470	62,9	5 000	0,51	F2BC 012-TPZM	ECB 504
	90	12,7	6,55	0,28		0,23		
$\frac{15}{16}$ 23,813	3,9	3 150	1 750	75,3	4 300	0,68	F2BC 015-TPZM	ECB 505
	99	14	7,8	0,335		0,31		
1 25,4	3,89	2 680	1 750	75,3	4 300	1,55	F2BSS 100-TPSS	ECB 505
	98,8	11,9	7,8	0,335		0,71		
	3,9	2 680	1 750	75,3	4 300	0,64	F2BC 100-TPSS	ECB 505
	99	11,9	7,8	0,335		0,29		
	3,9	2 680	1 750	75,3	4 300	0,64	F2BC 100-TPZM	ECB 505
	99	14	7,8	0,335		0,29		
$1\frac{3}{16}$ 30,163	4,59	3 660	2 520	107	3 800	2,2	F2BSS 103-TPSS	ECB 506
	116,7	16,3	11,2	0,475		1		
	4,61	3 660	2 520	107	3 800	0,97	F2BC 103-TPSS	ECB 506
	117	16,3	11,2	0,475	3 800	0,44		
	4,61	4 380	2 520	107	3 800	0,97	F2BC 103-TPZM	ECB 506
	117	19,5	11,2	0,475	3 800	0,44		
$1\frac{1}{4}$ 31,75	4,59	3 660	2 520	107	3 800	2,15	F2BSS 104S-TPSS	ECB 506
	116,7	16,3	11,2	0,475		0,97		
	4,61	3 660	2 520	107	3 800	0,9	F2BC 104S-TPSS	ECB 506
	117	16,3	11,2	0,475		0,41		
	4,61	4 380	2 520	107	3 800	0,93	F2BC 104S-TPZM	ECB 506
	117	19,5	11,2	0,475		0,42		
	5,12	4 860	3 440	147	3 200	1,5	F2BC 104-TPSS	ECB 507
	130	21,6	15,3	0,655		0,67		
	5,12	5 730	3 440	147	3 200	1,5	F2BC 104-TPZM	ECB 507
	130	25,5	15,3	0,655		0,69		
130,2	21,6	15,3	0,655	3 200	3,1	F2BSS 104-TPSS	ECB 507	
130,2	21,6	15,3	0,655		1,4			



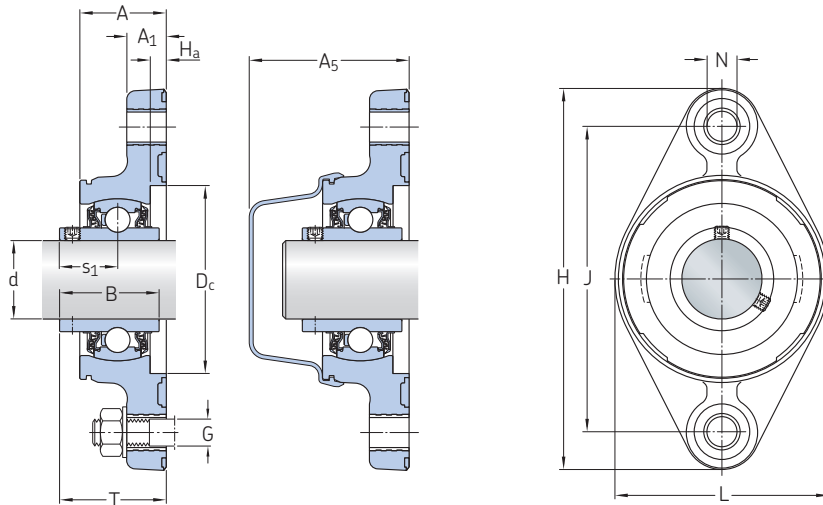
F2BSS (stainless steel housing)

Dimensions

d	A	A ₁	A ₅	B	D _C	H	H _a	L	N	G	s ₁	T
in/mm												
3/4	1,02	0,44	2,08	1,22	2,05	4,41	0,24	2,42	0,44	3/8	0,72	1,32
19,05	25,8	11,1	52,9	31	52	111,9	6	61,5	11,1	10	18,3	33,6
	1,06	0,67	2,14	1,22	2,05	4,69	0,24	2,44	0,45	3/8	0,72	1,38
	27	17	54,3	31	52	119	6	62	11,5	10	18,3	35
	1,06	0,67	2,14	1,22	2,05	4,69	0,24	2,44	0,45	3/8	0,72	1,38
	27	17	54,3	31	52	119	6	62	11,5	10	18,3	35
15/16	1,14	0,67	2,2	1,34	2,44	5,04	0,24	2,83	0,45	3/8	0,78	1,46
23,813	29	17	55,8	34,1	62	128	6	72	11,5	10	19,8	37
1	1,16	0,53	2,2	1,34	2,44	4,87	0,24	2,73	0,5	7/16	0,78	1,44
25,4	29,4	13,5	56	34,1	62	123,8	6	69,3	12,7	10	19,8	36,5
	1,14	0,67	2,2	1,34	2,44	5,04	0,24	2,83	0,45	3/8	0,78	1,46
	29	17	55,8	34,1	62	128	6	72	11,5	10	19,8	37
	1,14	0,67	2,19	1,34	2,44	5,04	0,24	2,83	0,45	3/8	0,78	1,37
	29	17	55,6	34,1	62	128	6	72	11,5	10	19,8	34,8
1 3/16	1,34	0,53	2,45	1,5	2,83	5,56	0,24	3,11	0,5	7/16	0,87	1,65
30,163	34,1	13,5	62,2	38,1	72	141,3	6	79,1	12,7	10	22,2	42
	1,3	0,59	2,41	1,5	2,83	5,75	0,24	3,23	0,45	3/8	0,87	1,61
	33	15	61,3	38,1	72	146	6	82	11,5	10	22,2	40,9
	1,3	0,59	2,41	1,5	2,83	5,75	0,24	3,23	0,45	3/8	0,87	1,61
	33	15	61,3	38,1	72	146	6	82	11,5	10	22,2	40,9
1 1/4	1,34	0,53	2,45	1,5	2,83	5,56	0,24	3,11	0,5	7/16	0,87	1,65
31,75	34,1	13,5	62,2	38,1	72	141,3	6	79,1	12,7	10	22,2	42
	1,3	0,59	2,41	1,5	2,83	5,75	0,24	3,23	0,45	3/8	0,87	1,61
	33	15	61,3	38,1	72	146	6	82	11,5	10	22,2	40,9
	1,3	0,59	2,41	1,5	2,83	5,75	0,24	3,23	0,45	3/8	0,87	1,61
	33	15	61,3	38,1	72	146	6	82	11,5	10	22,2	40,9
	1,42	0,67	2,55	1,69	3,23	6,46	0,24	3,62	0,56	1/2	1	1,77
	36	17	64,8	42,9	82	164	6	92	14,2	12	25,4	45
	1,42	0,67	2,55	1,69	3,23	6,46	0,24	3,62	0,56	1/2	1	1,78
	36	17	64,8	42,9	82	164	6	92	14,2	12	25,4	45,1
	1,41	0,56	2,53	1,69	3,23	6,13	0,24	3,52	0,56	1/2	1	1,81
	35,7	14,3	64,3	42,9	82	155,6	6	89,5	14,3	12	25,4	46

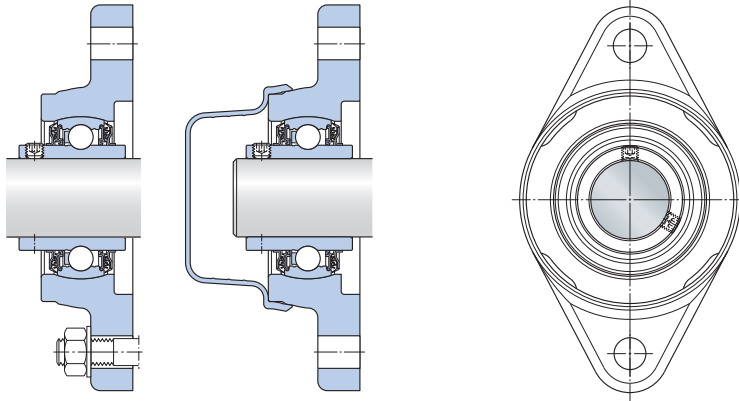
1.1 Oval flanged ball bearing units, inch shafts

d $1\frac{3}{8}$ – $1\frac{15}{16}$ in
34,925 – 49,213 mm



F2BC (composite housing)

Principal dimensions		Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designations	End cover
d	J	C	C ₀	P _u	with shaft tolerance h6		Bearing unit	
in/mm		lbf/kN		lbf/kN	r/min	lb/kg	–	
1 3/8 34,925	5,12	4 860	3 440	147	3 200	1,4	F2BC 106-TPSS	ECB 507
	130	21,6	15,3	0,655		0,63		
	5,12	5 730	3 440	147	3 200	1,4	F2BC 106-TPZM	ECB 507
	130	25,5	15,3	0,655		0,63		
	5,13	4 860	3 440	147	3 200	2,85	F2BSS 106-TPSS	ECB 507
130,2	21,6	15,3	0,655		1,3			
1 7/16 36,513	5,12	4 860	3 440	147	3 200	1,3	F2BC 107-TPSS	ECB 507
	130	21,6	15,3	0,655		0,6		
	5,12	5 730	3 440	147	3 200	1,3	F2BC 107-TPZM	ECB 507
	130	25,5	15,3	0,655		0,6		
	5,13	4 860	3 440	147	3 200	2,85	F2BSS 107-TPSS	ECB 507
130,2	21,6	15,3	0,655		1,3			
1 1/2 38,1	5,66	5 550	4 270	180	2 800	3,85	F2BSS 108-TPSS	ECB 508
	143,7	24,7	19	0,8		1,75		
	5,67	5 550	4 270	180	2 800	1,8	F2BC 108-TPSS	ECB 508
	144	24,7	19	0,8		0,82		
	5,67	6 900	4 270	180	2 800	1,85	F2BC 108-TPZM	ECB 508
144	30,7	19	0,8		0,84			
1 15/16 49,213	6,18	6 650	5 220	220	2 200	2,3	F2BC 115-TPSS	ECB 510
	157	29,6	23,2	0,98		1,05		
	6,18	7 890	5 220	220	2 200	2,3	F2BC 115-TPZM	ECB 510
	157	35,1	23,2	0,98		1,05		



F2BSS (stainless steel housing)

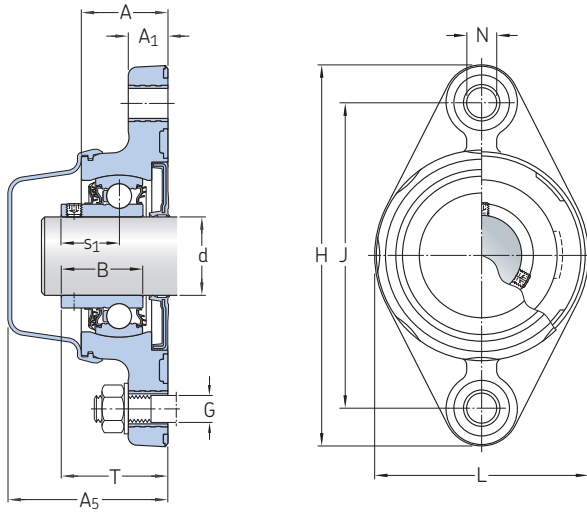
Dimensions

d	A	A ₁	A ₅	B	D _C	H	H _a	L	N	G	s ₁	T
in/mm												
1 3/8	1,42	0,67	2,55	1,69	3,23	6,46	0,24	3,62	0,56	1/2	1	1,77
34,925	36	17	64,8	42,9	82	164	6	92	14,2	12	25,4	45
	1,42	0,67	2,55	1,69	3,23	6,46	0,24	3,62	0,56	1/2	1	1,78
	36	17	64,8	42,9	82	164	6	92	14,2	12	25,4	45,1
	1,41	0,56	2,53	1,69	3,23	6,13	0,24	3,52	0,56	1/2	1	1,81
	35,7	14,3	64,3	42,9	82	155,6	6	89,5	14,3	12	25,4	46
1 7/16	1,42	0,67	2,55	1,69	3,23	6,46	0,24	3,62	0,56	1/2	1	1,77
36,513	36	17	64,8	42,9	82	164	6	92	14,2	12	25,4	45
	1,42	0,67	2,55	1,69	3,23	6,46	0,24	3,62	0,56	1/2	1	1,78
	36	17	64,8	42,9	82	164	6	92	14,2	12	25,4	45,1
	1,41	0,56	2,53	1,69	3,23	6,13	0,24	3,52	0,56	1/2	1	1,81
	35,7	14,3	64,3	42,9	82	155,6	6	89,5	14,3	12	25,4	46
1 1/2	1,53	0,56	2,71	1,94	3,46	6,75	0,24	3,74	0,56	1/2	1,19	2,09
38,1	38,9	14,3	68,8	49,2	88	171,5	6	95,1	14,3	12	30,2	53,2
	1,5	0,67	2,68	1,94	3,46	7,01	0,24	3,86	0,56	1/2	1,19	2
	38	17	68,1	49,2	88	178	6	98	14,2	12	30,2	50,9
	1,5	0,67	2,68	1,94	3,46	7,01	0,24	3,86	0,56	1/2	1,19	2
	38	17	68,1	49,2	88	178	6	98	14,2	12	30,2	50,9
1 15/16	1,65	0,75	2,92	2,03	3,86	7,83	0,24	4,21	0,69	5/8	1,28	2,12
49,213	42	19	74,2	51,6	98	199	6	107	17,5	16	32,6	53,8
	1,65	0,75	2,92	2,03	3,86	7,83	0,24	4,21	0,69	5/8	1,28	2,12
	42	19	74,2	51,6	98	199	6	107	17,5	16	32,6	53,8

Product data

C

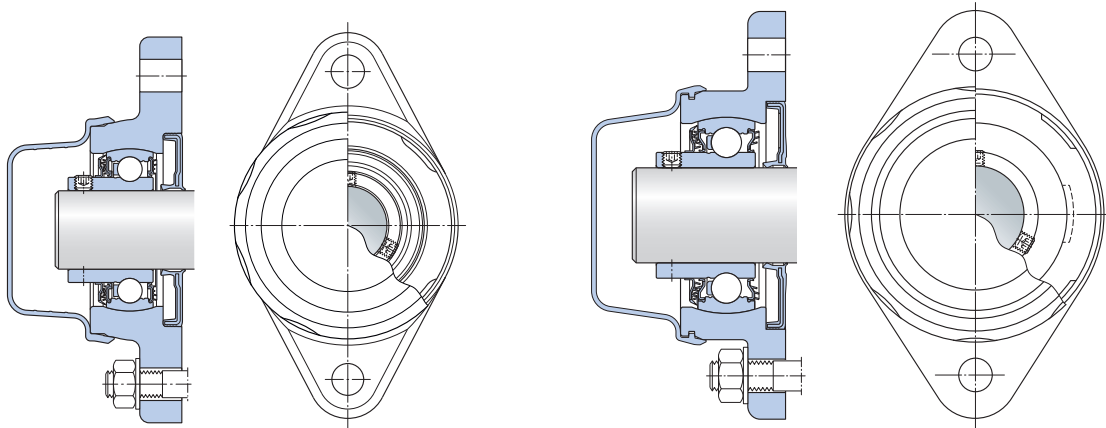
1.2 Oval flanged sealed ball bearing units (DFH), metric shafts
d 20 – 50 mm



F2BC .. -DFH (composite housing)

Principal dimensions		Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designation
d	J	C	C ₀				
mm		kN		kN	r/min	kg	–
20	89,7	10,8	6,55	0,28	700	0,48	F2BSS 20M-CPSS-DFH
	90	10,8	6,55	0,28	700	0,25	F2BC 20M-CPSS-DFH
25	98,8	11,9	7,8	0,335	700	0,72	F2BSS 25M-CPSS-DFH
	99	11,9	7,8	0,335	700	0,32	F2BC 25M-CPSS-DFH
30	99	16,3	11,2	0,475	700	0,99	F2BESS 30M-CPSS-DFH ¹⁾
	116,7	16,3	11,2	0,475	700	1	F2BSS 30M-CPSS-DFH
	117	16,3	11,2	0,475	700	0,46	F2BC 30M-CPSS-DFH
35	130	21,6	15,3	0,655	500	0,65	F2BC 35M-CPSS-DFH
	130,2	21,6	15,3	0,655	500	1,35	F2BSS 35M-CPSS-DFH
40	117	24,7	19	0,8	500	1,4	F2BESS 40M-CPSS-DFH ¹⁾
	143,7	24,7	19	0,8	500	1,7	F2BSS 40M-CPSS-DFH
	144	24,7	19	0,8	500	0,81	F2BC 40M-CPSS-DFH
50	157	29,6	23,2	0,98	500	1,05	F2BC 50M-CPSS-DFH

¹⁾ Compact units



F2BSS .. -DFH (stainless steel housing)

F2BESS .. -DFH (stainless steel housing) - compact unit

Dimensions

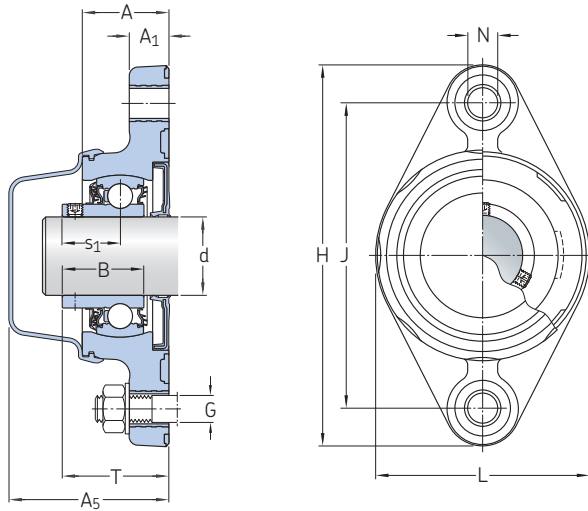
d	A	A ₁	A ₅	B	H	L	N	G	s ₁	T
mm										
20	25,8	11,1	52,9	25,3	111,9	61,5	11,1	10	18,3	33,6
	27	17	54,3	25,3	119	62	11,5	10	18,3	34,8
25	29,4	13,5	53,8	27,3	123,8	69,3	12,7	10	19,8	36,5
	29	17	55,8	27,3	128	72	11,5	10	19,8	36,8
30	34,3	12,5	62,4	31,2	130	85	11,5	10	22,2	42,2
	34,1	13,5	62,2	31,2	141,3	79,1	12,7	10	22,2	42
	33	15	61,1	31,2	146	82	11,5	10	22,2	40,7
35	36	17	64,6	34,9	164	92	14,2	12	25,4	44,9
	35,7	14,3	61,2	34,9	155,6	89,5	14,3	12	25,4	46
40	38,9	12,5	68,8	40,7	145	100	11,5	12	30,2	53,2
	38,9	14,3	68,8	40,7	171,5	95,1	14,3	12	30,2	53,2
	38	17	67,9	40,7	178	98	14,2	12	30,2	50,7
50	42	19	74,2	43,6	199	107	17,5	16	32,6	53,8

C Product data

1.2 Oval flanged sealed ball bearing units (DFH), inch shafts

d 3/4 – 1 3/8 in

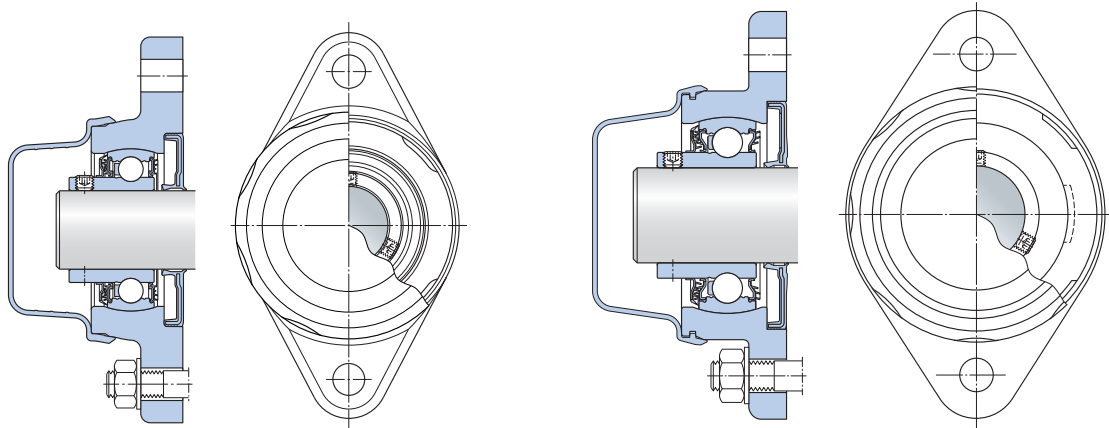
19,05 – 34,925 mm



F2BC...-DFH (composite housing)

Principal dimensions		Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designation
d	J	C	C ₀	P _u	with shaft tolerance h6		
in/mm		lbf/kN		lbf/kN	r/min	lb/kg	–
3/4 19,05	3,53	2 430	1 470	62,9	700	1,1	F2BSS 012-CPSS-DFH
	89,7	10,8	6,55	0,28		0,49	
	3,54	2 430	1 470	62,9	700	0,57	F2BC 012-CPSS-DFH
	90	10,8	6,55	0,28		0,26	
1 25,4	3,89	2 680	1 750	75,3	700	1,6	F2BSS 100-CPSS-DFH
	98,8	11,9	7,8	0,335		0,72	
	3,9	2 680	1 750	75,3	700	0,68	F2BC 100-CPSS-DFH
	99	11,9	7,8	0,335		0,31	
1 3/16 30,163	4,59	3 660	2 520	107	700	2,2	F2BSS 103-CPSS-DFH
	116,7	16,3	11,2	0,475		1	
	4,61	3 660	2 520	107	700	0,99	F2BC 103-CPSS-DFH
	117	16,3	11,2	0,475		0,45	
1 1/4 31,75	3,9	3 660	2 520	107	700	2,15	F2BESS 104S-CPSS-DFH ¹⁾
	99	16,3	11,2	0,475		0,97	
	4,59	3 660	2 520	107	700	2,15	F2BSS 104S-CPSS-DFH
	116,7	16,3	11,2	0,475		0,98	
	4,61	3 660	2 520	107	700	0,97	F2BC 104S-CPSS-DFH
	117	16,3	11,2	0,475		0,44	
	5,12	4 860	3 440	147	500	1,55	F2BC 104-CPSS-DFH
	130	21,6	15,3	0,655		0,7	
1 3/8 34,925	5,13	4 860	3 440	147	500	3,1	F2BSS 104-CPSS-DFH
	130,2	21,6	15,3	0,655		1,4	
	5,12	4 860	3 440	147	500	1,45	F2BC 106-CPSS-DFH
	130	21,6	15,3	0,655		0,65	
1 3/8 34,925	5,13	4 860	3 440	147	500	3	F2BSS 106-CPSS-DFH
	130,2	21,6	15,3	0,655		1,35	

¹⁾ Compact units



F2BSS .. -DFH (stainless steel housing)

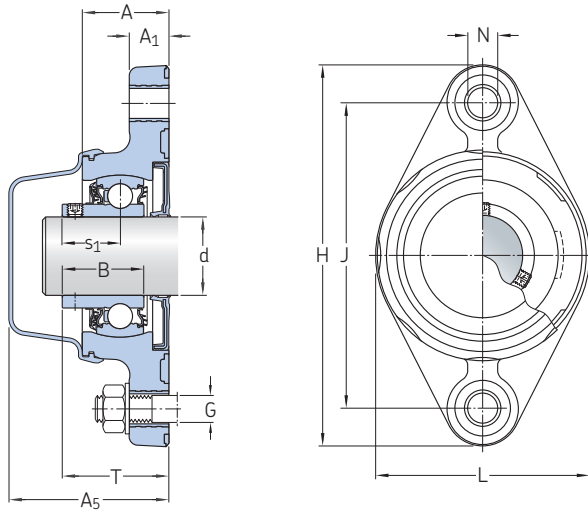
F2BESS .. -DFH (stainless steel housing) - compact unit

Dimensions

d	A	A ₁	A ₅	B	H	L	N	G	s ₁	T
in/mm										
3/4	1,02	0,44	2,08	1	4,41	2,42	0,44	3/8	0,72	1,32
19,05	25,8	11,1	52,9	25,3	111,9	61,5	11,1	10	18,3	33,6
	1,06	0,67	2,14	1	4,69	2,44	0,45	3/8	0,72	1,38
	27	17	54,3	25,3	119	62	11,5	10	18,3	35
1	1,16	0,53	2,1	1,07	4,87	2,73	0,5	7/16	0,78	1,44
25,4	29,4	13,5	53,3	27,3	123,8	69,3	12,7	10	19,8	36,5
	1,14	0,67	2,2	1,07	5,04	2,83	0,45	3/8	0,78	1,45
	29	17	55,8	27,3	128	72	11,5	10	19,8	36,8
1 3/16	1,34	0,53	2,45	1,23	5,56	3,11	0,5	7/16	0,87	1,65
30,163	34,1	13,5	62,2	31,2	141,3	79,1	12,7	10	22,2	42
	1,3	0,59	2,41	1,23	5,75	3,23	0,45	3/8	0,87	1,6
	33	15	61,1	31,2	146	82	11,5	10	22,2	40,7
1 1/4	1,35	0,49	2,46	1,23	5,12	3,35	0,45	7/16	0,87	1,66
31,75	34,3	12,5	62,4	31,2	130	85	11,5	10	22,2	42,2
	1,34	0,53	2,45	1,23	5,56	3,11	0,5	7/16	0,87	1,65
	34,1	13,5	62,2	31,2	141,3	79,1	12,7	10	22,2	42
	1,3	0,59	2,41	1,23	5,75	3,23	0,45	3/8	0,87	1,6
	33	15	61,1	31,2	146	82	11,5	10	22,2	40,7
	1,42	0,67	2,54	1,37	6,46	3,62	0,56	1/2	1	1,77
	36	17	64,6	34,9	164	92	14,2	12	25,4	44,9
	1,41	0,56	2,53	1,37	6,13	3,52	0,56	1/2	1	1,81
	35,7	14,3	64,3	34,9	155,6	89,5	14,3	12	25,4	46
1 3/8	1,42	0,67	2,54	1,37	6,46	3,62	0,56	1/2	1	1,77
34,925	36	17	64,6	34,9	164	92	14,2	12	25,4	44,9
	1,41	0,56	2,53	1,37	6,13	3,52	0,56	1/2	1	1,81
	35,7	14,3	64,3	34,9	155,6	89,5	14,3	12	25,4	46

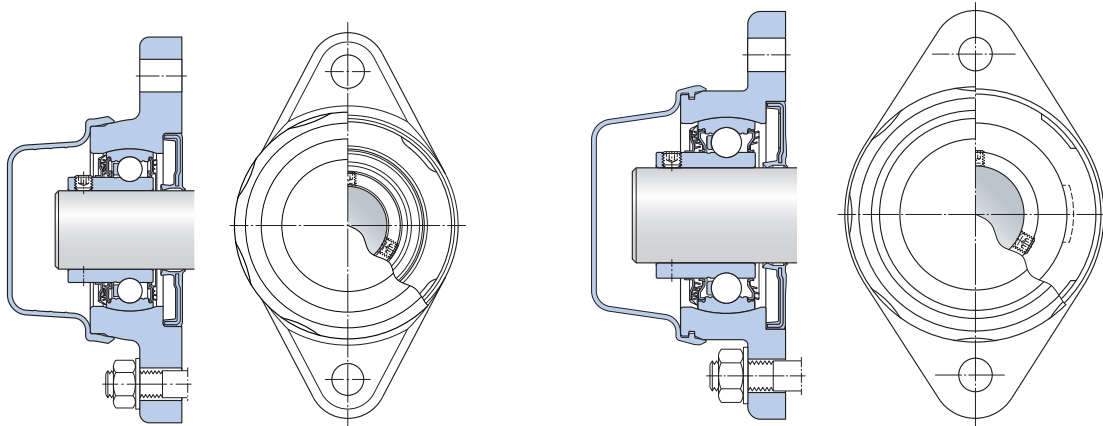
1.2 Oval flanged sealed ball bearing units (DFH), inch shafts

d $1\frac{7}{16}$ – $1\frac{15}{16}$ in
36,513 – 49,213 mm



F2BC .. -DFH (composite housing)

Principal dimensions		Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designation
d	J	C	C ₀	P _u	with shaft tolerance h6		
in/mm		lbf/kN		lbf/kN	r/min	lb/kg	–
1 7/16 36,513	5,12	4 860	3 440	147	500	1,35	F2BC 107-CPSS-DFH
	130	21,6	15,3	0,655		0,62	
	5,13	4 860	3 440	147	500	2,85	F2BSS 107-CPSS-DFH
	130,2	21,6	15,3	0,655		1,3	
1 1/2 38,1	5,66	5 550	4 270	180	500	3,85	F2BSS 108-CPSS-DFH
	143,7	24,7	19	0,8		1,75	
	5,67	5 550	4 270	180	500	1,85	F2BC 108-CPSS-DFH
	144	24,7	19	0,8		0,85	
1 15/16 49,213	6,18	6 650	5 220	220	500	2,3	F2BC 115-CPSS-DFH
	157	29,6	23,2	0,98		1,05	



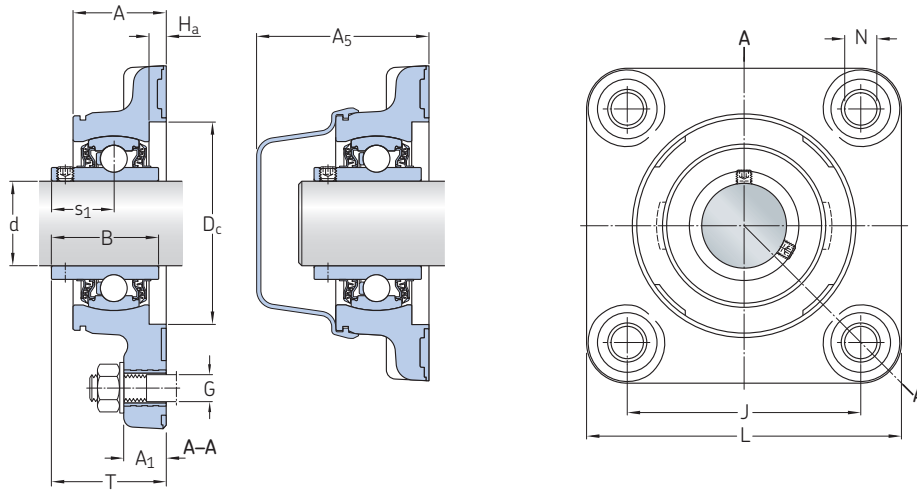
F2BSS .. -DFH (stainless steel housing)

F2BESS .. -DFH (stainless steel housing) - compact unit

Dimensions

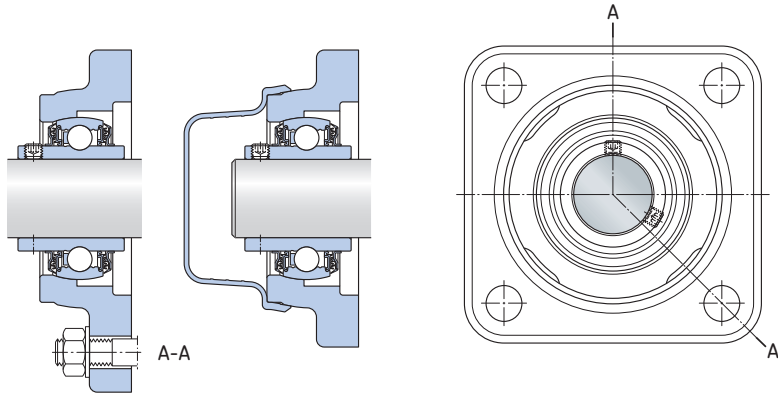
d	A	A ₁	A ₅	B	H	L	N	G	s ₁	T
in/mm										
1 7/16	1,42	0,67	2,54	1,37	6,46	3,62	0,56	1/2	1	1,77
36,513	36	17	64,6	34,9	164	92	14,2	12	25,4	44,9
	1,41	0,56	2,53	1,37	6,13	3,52	0,56	1/2	1	1,81
	35,7	14,3	64,3	34,9	155,6	89,5	14,3	12	25,4	46
1 1/2	1,53	0,56	2,71	1,6	6,75	3,74	0,56	1/2	1,19	2,09
38,1	38,9	14,3	68,8	40,7	171,5	95,1	14,3	12	30,2	53,2
	1,5	0,67	2,68	1,6	7,01	3,86	0,56	1/2	1,19	2
	38	17	68,1	40,7	178	98	14,2	12	30,2	50,7
1 15/16	1,65	0,75	2,92	1,72	7,83	4,21	0,69	5/8	1,28	2,12
49,213	42	19	74,2	43,6	199	107	17,5	16	32,6	53,8

1.3 Square flanged ball bearing units, metric shafts
d 20 – 50 mm



F4BC (composite housing)

Principal dimensions		Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designations	End cover
d	J	C	C ₀	P _u	with shaft tolerance h6	kg	Bearing unit	
mm		kN		kN	r/min		–	
20	63,5	10,8	6,55	0,28	5 000	0,28	F4BC 20M-TPSS	ECB 504
	63,5	10,8	6,55	0,28	5 000	0,69	F4BSS 20M-TPSS	ECB 504
	63,5	12,7	6,55	0,28	5 000	0,28	F4BC 20M-TPZM	ECB 504
25	69,9	11,9	7,8	0,335	4 300	1,05	F4BSS 25M-TPSS	ECB 505
	70	11,9	7,8	0,335	4 300	0,34	F4BC 25M-TPSS	ECB 505
	70	14	7,8	0,335	4 300	0,34	F4BC 25M-TPZM	ECB 505
30	82,6	16,3	11,2	0,475	3 800	1,45	F4BSS 30M-TPSS	ECB 506
	83	16,3	11,2	0,475	3 800	0,5	F4BC 30M-TPSS	ECB 506
	83	19,5	11,2	0,475	3 800	0,5	F4BC 30M-TPZM	ECB 506
35	92	21,6	15,3	0,655	3 200	0,72	F4BC 35M-TPSS	ECB 507
	92	25,5	15,3	0,655	3 200	0,72	F4BC 35M-TPZM	ECB 507
	92,1	21,6	15,3	0,655	3 200	1,8	F4BSS 35M-TPSS	ECB 507
40	101,6	24,7	19	0,8	2 800	2,2	F4BSS 40M-TPSS	ECB 508
	102	24,7	19	0,8	2 800	0,9	F4BC 40M-TPSS	ECB 508
	102	30,7	19	0,8	2 800	0,9	F4BC 40M-TPZM	ECB 508
50	111	29,6	23,2	0,98	2 200	1,2	F4BC 50M-TPSS	ECB 510
	111	35,1	23,2	0,98	2 200	1,2	F4BC 50M-TPZM	ECB 510



F4BSS (stainless steel housing)

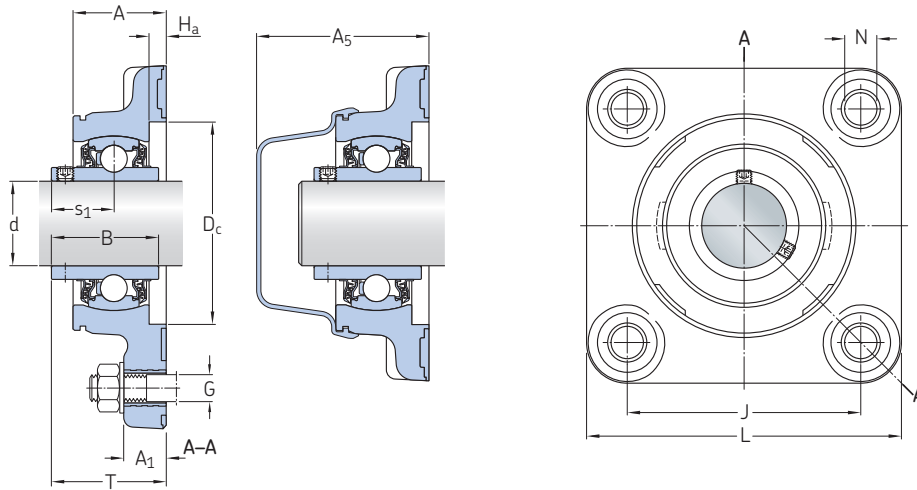
Dimensions

d	A	A ₁	A ₅	B	D _C	H _a	L	N	G	s ₁	T
mm											
20	27	15	54,1	31	52	6	92	11,5	10	18,3	34,8
	25,8	11,1	52,9	31	52	6	85,7	11,1	10	18,3	33,6
	27	15	54,1	31	52	6	92	11,5	10	18,3	34,8
25	29,4	13,5	56	34,1	62	6	95,3	11,5	10	19,8	36,5
	29	15	55,6	34,1	62	6	99	11,5	10	19,8	36,8
	29	15	55,6	34,1	62	6	99	11,5	10	19,8	36,8
30	34,3	12,5	62,4	38,1	72	6	110	12	10	22,2	42
	33	15	61,1	38,1	72	6	112	11,5	10	22,2	40,7
	33	15	61,1	38,1	72	6	112	11,5	10	22,2	40,7
35	36	17	64,6	42,9	82	6	125	14,2	12	25,4	44,9
	36	17	64,6	42,9	82	6	125	14,2	12	25,4	44,9
	35,7	14,3	64,3	42,9	82	6	117,5	14,3	12	25,4	46
40	38,9	14,3	68,8	49,2	88	6	130,2	14,3	12	30,2	53,2
	38	17	67,9	49,2	88	6	135	14,2	12	30,2	50,7
	38	17	67,9	49,2	88	6	135	14,2	12	30,2	50,7
50	42	19	74	51,6	98	6	153	17,5	16	32,6	53,6
	42	19	74	51,6	98	6	153	17,5	16	32,6	53,6

C Product data

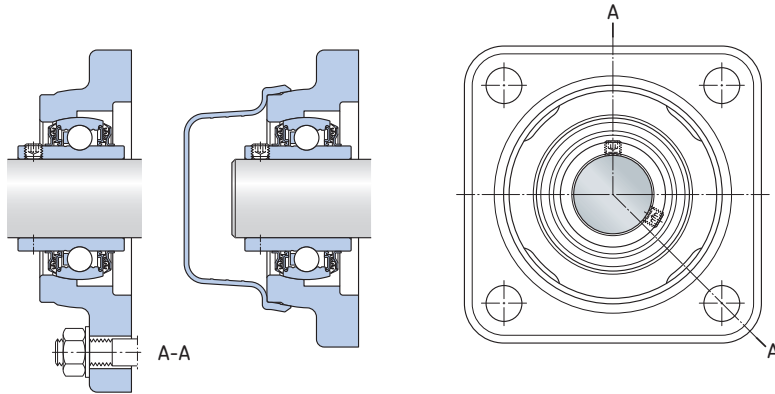
1.3 Square flanged ball bearing units, inch shafts

d $\frac{3}{4}$ – $1\frac{1}{4}$ in
19,05 – 31,75 mm



F4BC (composite housing)

Principal dimensions		Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designations	End cover
d	J	C	C ₀	P _u	with shaft tolerance h6		Bearing unit	
in/mm		lbf/kN		lbf/kN	r/min	lb/kg	–	
$\frac{3}{4}$ 19,05	2,5	2 430	1 470	62,9	5 000	0,64	F4BC 012-TPSS	ECB 504
	63,5	10,8	6,55	0,28		0,29		
	2,5	2 430	1 470	62,9	5 000	1,55	F4BSS 012-TPSS	ECB 504
	63,5	10,8	6,55	0,28		0,7		
	2,5	2 860	1 470	62,9	5 000	0,64	F4BC 012-TPZM	ECB 504
	63,5	12,7	6,55	0,28		0,29		
$\frac{15}{16}$ 23,813	2,76	3 150	1 750	75,3	4 300	0,79	F4BC 015-TPZM	ECB 505
	70	14	7,8	0,335		0,36		
1 25,4	2,75	2 680	1 750	75,3	4 300	2,3	F4BSS 100-TPSS	ECB 505
	69,9	11,9	7,8	0,335		1,05		
	2,76	2 680	1 750	75,3	4 300	0,75	F4BC 100-TPSS	ECB 505
	70	11,9	7,8	0,335		0,34		
	2,76	3 150	1 750	75,3	4 300	0,75	F4BC 100-TPZM	ECB 505
	70	14	7,8	0,335		0,34		
$1\frac{3}{16}$ 30,163	3,25	3 660	2 520	107	3 800	3,1	F4BSS 103-TPSS	ECB 506
	82,6	16,3	11,2	0,475		1,4		
	3,27	3 660	2 520	107	3 800	1,1	F4BC 103-TPSS	ECB 506
	83	16,3	11,2	0,475		0,5		
	3,27	4 380	2 520	107	3 800	1,1	F4BC 103-TPZM	ECB 506
	83	19,5	11,2	0,475		0,5		
$1\frac{1}{4}$ 31,75	3,25	3 660	2 520	107	3 800	3,1	F4BSS 104S-TPSS	ECB 506
	82,6	16,3	11,2	0,475		1,4		
	3,27	3 660	2 520	107	3 800	1,05	F4BC 104S-TPSS	ECB 506
	83	16,3	11,2	0,475		0,48		
	3,27	4 380	2 520	107	3 800	1,05	F4BC 104S-TPZM	ECB 506
	83	19,5	11,2	0,475		0,48		
	3,62	4 860	3 440	147	3 200	1,7	F4BC 104-TPSS	ECB 507
	92	21,6	15,3	0,655		0,77		
	3,62	5 730	3 440	147	3 200	1,7	F4BC 104-TPZM	ECB 507
	92	25,5	15,3	0,655		0,77		
3,63	4 860	3 440	147	3 200	4,1	F4BSS 104-TPSS	ECB 507	
92,1	21,6	15,3	0,655		1,85			



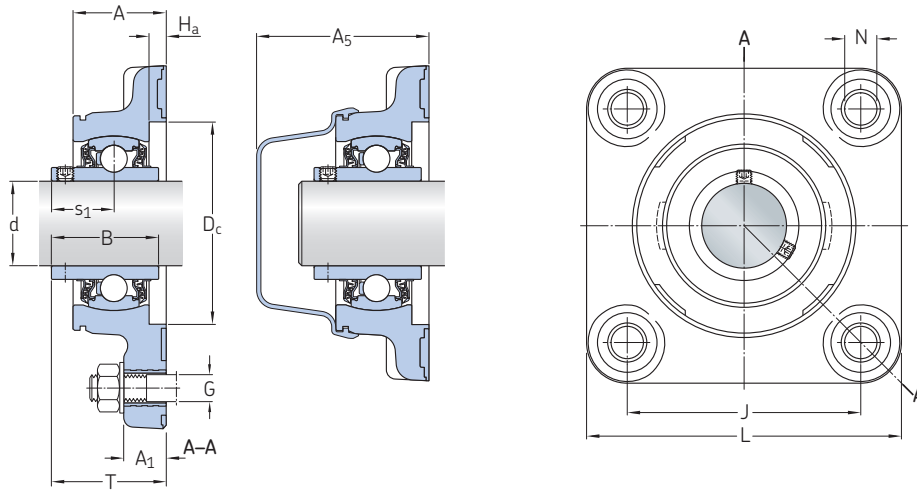
F4BSS (stainless steel housing)

Dimensions

d	A	A ₁	A ₅	B	D _C	H _a	L	N	G	s ₁	T
in/mm											
3/4	1,06	0,59	2,13	1,22	2,05	0,24	3,62	0,45	3/8	0,72	1,37
19,05	27	15	54,1	31	52	6	92	11,5	10	18,3	34,8
	1,02	0,44	2,08	1,22	2,05	0,24	3,37	0,44	3/8	0,72	1,32
	25,8	11,1	52,9	31	52	6	85,7	11,1	10	18,3	33,6
	1,06	0,59	2,13	1,22	2,05	0,24	3,62	0,45	3/8	0,72	1,37
	27	15	54,1	31	52	6	92	11,5	10	18,3	34,8
15/16	1,14	0,59	2,19	1,34	2,44	0,24	3,9	0,45	3/8	0,78	1,45
23,813	29	15	55,6	34,1	62	6	99	11,5	10	19,8	36,8
1	1,16	0,53	2,2	1,34	2,44	0,24	3,75	0,45	7/16	0,78	1,44
25,4	29,4	13,5	56	34,1	62	6	95,3	11,5	10	19,8	36,5
	1,14	0,59	2,19	1,34	2,44	0,24	3,9	0,45	3/8	0,78	1,45
	29	15	55,6	34,1	62	6	99	11,5	10	19,8	36,8
	1,14	0,59	2,19	1,34	2,44	0,24	3,9	0,45	3/8	0,78	1,45
	29	15	55,6	34,1	62	6	99	11,5	10	19,8	36,8
1 3/16	1,35	0,49	2,46	1,5	2,83	0,24	4,33	0,47	7/16	0,87	1,65
30,163	34,3	12,5	62,4	38,1	72	6	110	12	10	22,2	42
	1,3	0,59	2,41	1,5	2,83	0,24	4,41	0,45	3/8	0,87	1,6
	33	15	61,1	38,1	72	6	112	11,5	10	22,2	40,7
	1,3	0,59	2,41	1,5	2,83	0,24	4,41	0,45	3/8	0,87	1,6
	33	15	61,1	38,1	72	6	112	11,5	10	22,2	40,7
1 1/4	1,35	0,49	2,46	1,5	2,83	0,24	4,33	0,47	1/16	0,87	1,65
31,75	34,3	12,5	62,4	38,1	72	6	110	12	10	22,2	42
	1,3	0,59	2,41	1,5	2,83	0,24	4,41	0,45	1/8	0,87	1,6
	33	15	61,1	38,1	72	6	112	11,5	10	22,2	40,7
	1,3	0,59	2,41	1,5	2,83	0,24	4,41	0,45	1/8	0,87	1,6
	33	15	61,1	38,1	72	6	112	11,5	10	22,2	40,7
	1,42	0,67	2,54	1,69	3,23	0,24	4,92	0,56	1/2	1	1,77
	36	17	64,6	42,9	82	6	125	14,2	12	25,4	44,9
	1,42	0,67	2,54	1,69	3,23	0,24	4,92	0,56	1/2	1	1,77
	36	17	64,6	42,9	82	6	125	14,2	12	25,4	44,9
	1,41	0,56	2,53	1,69	3,23	0,24	4,63	0,56	1/2	1	1,81
	35,7	14,3	64,3	42,9	82	6	117,5	14,3	12	25,4	46

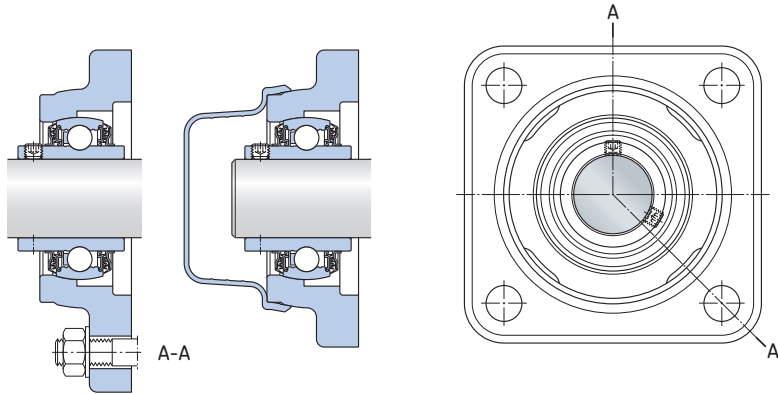
1.3 Square flanged ball bearing units, inch shafts

d $1\frac{3}{8}$ – $1\frac{15}{16}$ in
34,925 – 49,213 mm



F4BC (composite housing)

Principal dimensions		Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designations	End cover
d	J	C	C ₀	P _u	with shaft tolerance h6		Bearing unit	
in/mm		lbf/kN		lbf/kN	r/min	lb/kg	–	
1 3/8 34,925	3,62	4 860	3 440	147	3 200	1,6	F4BC 106-TPSS	ECB 507
	92	21,6	15,3	0,655		0,72		
	3,62	5 730	3 440	147	3 200	1,6	F4BC 106-TPZM	ECB 507
	92	25,5	15,3	0,655		0,72		
	3,63	4 860	3 440	147	3 200	3,95	F4BSS 106-TPSS	ECB 507
	92,1	21,6	15,3	0,655		1,8		
1 7/16 36,513	3,62	4 860	3 440	147	3 200	1,5	F4BC 107-TPSS	ECB 507
	92	21,6	15,3	0,655		0,69		
	3,62	5 730	3 440	147	3 200	1,5	F4BC 107-TPZM	ECB 507
	92	25,5	15,3	0,655		0,69		
	3,63	4 860	3 440	147	3 200	3,85	F4BSS 107-TPSS	ECB 507
	92,1	21,6	15,3	0,655		1,75		
1 1/2 38,1	4	5 550	4 270	180	2 800	4,95	F4BSS 108-TPSS	ECB 508
	101,6	24,7	19	0,8		2,25		
	4,02	5 550	4 270	180	2 800	2,05	F4BC 108-TPSS	ECB 508
	102	24,7	19	0,8		0,94		
	4,02	6 900	4 270	180	2 800	2,1	F4BC 108-TPZM	ECB 508
	102	30,7	19	0,8		0,95		
1 15/16 49,213	4,37	6 650	5 220	220	2 200	2,65	F4BC 115-TPSS	ECB 510
	111	29,6	23,2	0,98		1,2		
	4,37	7 890	5 220	220	2 200	2,65	F4BC 115-TPZM	ECB 510
	111	35,1	23,2	0,98		1,2		



F4BSS (stainless steel housing)

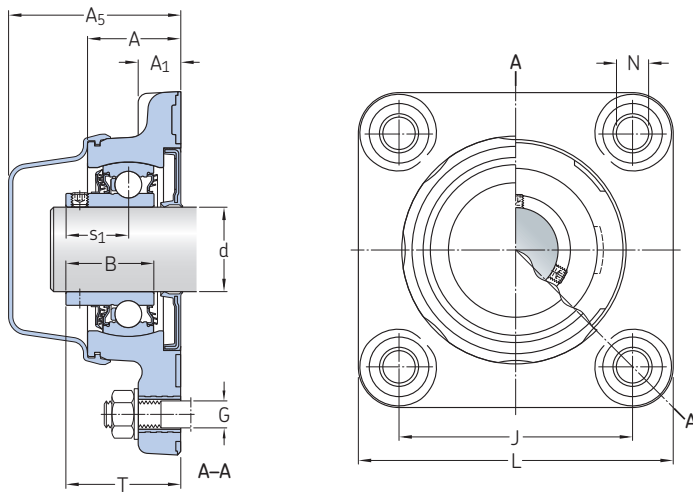
Dimensions

d	A	A ₁	A ₅	B	D _C	H _a	L	N	G	s ₁	T
in/mm											
1 3/8	1,42	0,67	2,54	1,69	3,23	0,24	4,92	0,56	1/2	1	1,77
34,925	36	17	64,6	42,9	82	6	125	14,2	12	25,4	44,9
	1,42	0,67	2,54	1,69	3,23	0,24	4,92	0,56	1/2	1	1,77
	36	17	64,6	42,9	82	6	125	14,2	12	25,4	44,9
	1,41	0,56	2,53	1,69	3,23	0,24	4,63	0,56	1/2	1	1,81
	35,7	14,3	64,3	42,9	82	6	117,5	14,3	12	25,4	46
1 7/16	1,42	0,67	2,54	1,69	3,23	0,24	4,92	0,56	1/2	1	1,77
36,513	36	17	64,6	42,9	82	6	125	14,2	12	25,4	44,9
	1,42	0,67	2,54	1,69	3,23	0,24	4,92	0,56	1/2	1	1,77
	36	17	64,6	42,9	82	6	125	14,2	12	25,4	44,9
	1,41	0,56	2,53	1,69	3,23	0,24	4,63	0,56	1/2	1	1,81
	35,7	14,3	64,3	42,9	82	6	117,5	14,3	12	25,4	46
1 1/2	1,53	0,56	2,71	1,94	3,46	0,24	5,13	0,56	1/2	1,19	2,09
38,1	38,9	14,3	68,8	49,2	88	6	130,2	14,3	12	30,2	53,2
	1,5	0,67	2,67	1,94	3,46	0,24	5,31	0,56	1/2	1,19	2
	38	17	67,9	49,2	88	6	135	14,2	12	30,2	50,7
	1,5	0,67	2,67	1,94	3,46	0,24	5,31	0,56	1/2	1,19	2
	38	17	67,9	49,2	88	6	135	14,2	12	30,2	50,7
1 15/16	1,65	0,75	2,91	2,03	3,86	0,24	6,02	0,69	5/8	1,28	2,11
49,213	42	19	74	51,6	98	6	153	17,5	16	32,6	53,6
	1,65	0,75	2,91	2,03	3,86	0,24	6,02	0,69	5/8	1,28	2,11
	42	19	74	51,6	98	6	153	17,5	16	32,6	53,6

Product data

C

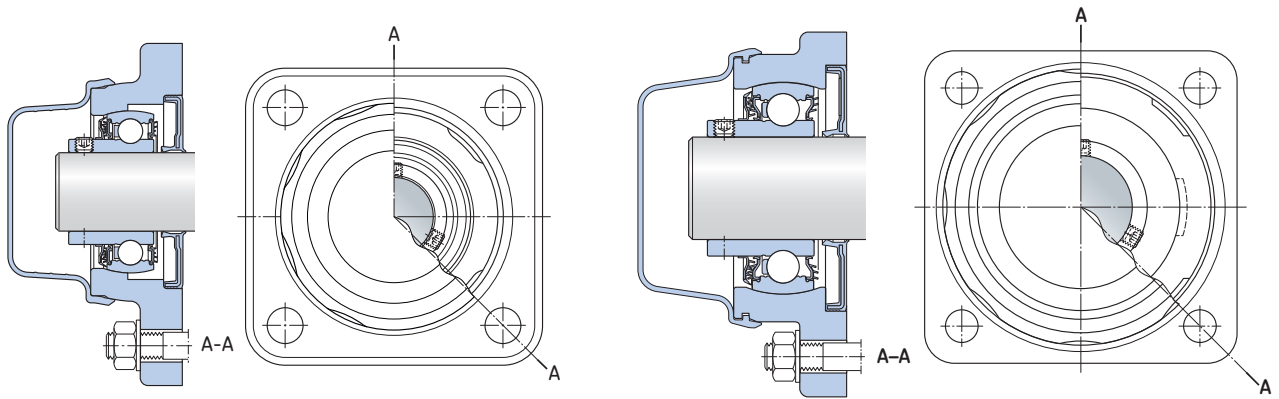
1.4 Square flanged sealed ball bearing units (DFH), metric shafts
d 20 – 50 mm



F4BC.. -DFH (composite housing)

Principal dimensions		Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designation
d	J	C	C ₀				
mm		kN		kN	r/min	kg	–
20	63,5	10,8	6,55	0,28	700	0,3	F4BC 20M-CPSS-DFH
	63,5	10,8	6,55	0,28	700	0,71	F4BSS 20M-CPSS-DFH
25	69,9	11,9	7,8	0,335	700	1,05	F4BSS 25M-CPSS-DFH
	70	11,9	7,8	0,335	700	0,36	F4BC 25M-CPSS-DFH
30	82,6	16,3	11,2	0,475	700	1,45	F4BSS 30M-CPSS-DFH
	83	16,3	11,2	0,475	700	0,52	F4BC 30M-CPSS-DFH
35	92	21,6	15,3	0,655	500	0,74	F4BC 35M-CPSS-DFH
	92,1	21,6	15,3	0,655	500	1,8	F4BSS 35M-CPSS-DFH
40	83	24,7	19	0,8	500	1,75	F4BESS 40M-CPSS-DFH ¹⁾
	101,6	24,7	19	0,8	500	2,25	F4BSS 40M-CPSS-DFH
	102	24,7	19	0,8	500	0,91	F4BC 40M-CPSS-DFH
50	111	29,6	23,2	0,98	500	1,2	F4BC 50M-CPSS-DFH

¹⁾ Compact units



F4BSS.. -DFH (stainless steel housing)

F4BESS.. -DFH (stainless steel housing) - compact unit

Dimensions

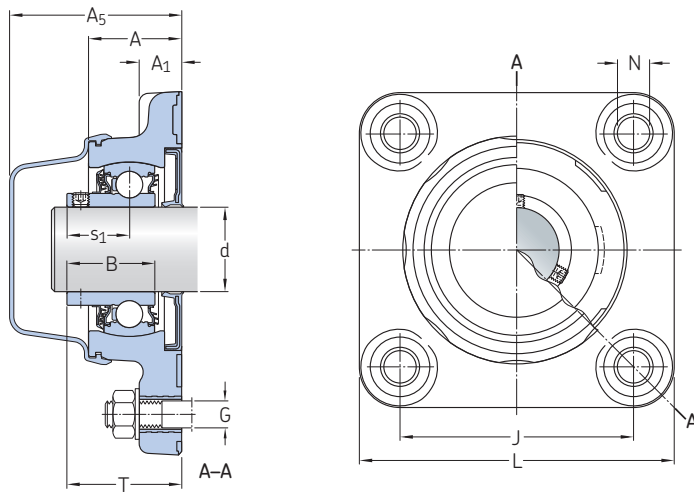
d	A	A ₁	A ₅	B	L	N	G	s ₁	T
mm									
20	27	15	54,3	25,3	92	11,5	10	18,3	35
	25,8	11,1	52,9	25,3	85,7	11,1	10	18,3	33,6
25	29,4	13,5	56	27,3	95,3	11,5	10	19,8	36,5
	29	15	55,8	27,3	99	11,5	10	19,8	37
30	34,3	12,5	62,4	31,2	110	12	10	22,2	42
	33	15	61,1	31,2	112	11,5	10	22,2	40,7
35	36	17	64,8	34,9	125	14,2	12	25,4	45,1
	35,7	14,3	64,3	34,9	117,5	14,3	12	25,4	46
40	38,9	14,3	68,8	40,7	110	11,5	10	30,2	53,2
	38,9	14,3	68,8	40,7	130,2	14,3	12	30,2	53,2
	38	17	68,1	40,7	135	14,2	12	30,2	50,9
50	42	19	74	43,6	153	17,5	16	32,6	53,6

C Product data

1.4 Square flanged sealed ball bearing units (DFH), inch shafts

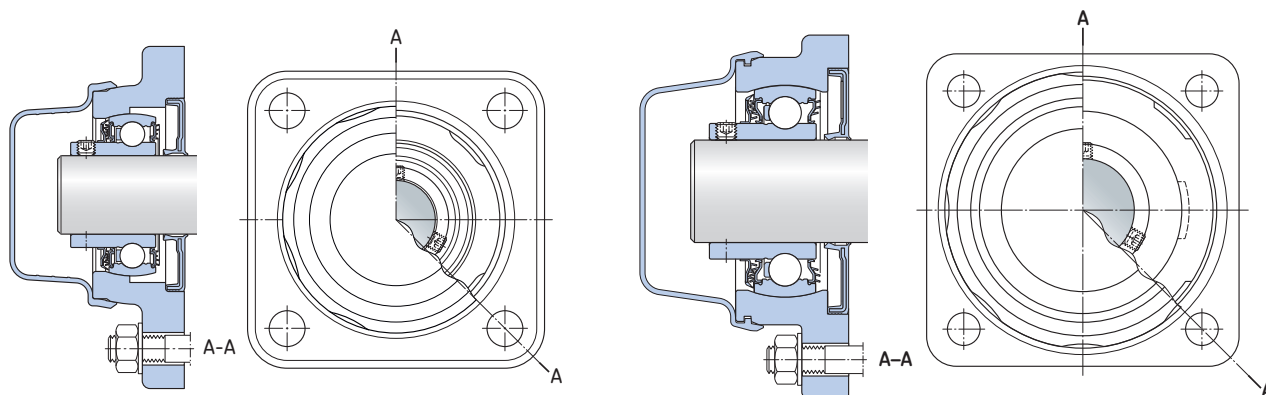
d $\frac{3}{4}$ – $1\frac{3}{8}$ in

19,05 – 34,925 mm



F4BC.. -DFH (composite housing)

Principal dimensions		Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designation
d	J	C	C ₀	P _u	with shaft tolerance h6		
in/mm		lbf/kN		lbf/kN	r/min	lb/kg	–
$\frac{3}{4}$ 19,05	2,5	2 430	1 470	62,9	700	0,66	F4BC 012-CPSS-DFH
	63,5	10,8	6,55	0,28		0,3	
	2,5	2 430	1 470	62,9	700	1,6	F4BSS 012-CPSS-DFH
	63,5	10,8	6,55	0,28		0,72	
1 25,4	2,75	2 680	1 750	75,3	700	2,3	F4BSS 100-CPSS-DFH
	69,9	11,9	7,8	0,335		1,05	
	2,76	2 680	1 750	75,3	700	0,79	F4BC 100-CPSS-DFH
	70	11,9	7,8	0,335		0,36	
$1\frac{1}{8}$ 28,575	3,27	3 660	2 520	107	700	1,2	F4BC 102-CPSS-DFH
	83	16,3	11,2	0,475		0,54	
$1\frac{3}{16}$ 30,163	3,25	3 660	2 520	107	700	3,2	F4BSS 103-CPSS-DFH
	82,6	16,3	11,2	0,475		1,45	
	3,27	3 660	2 520	107	700	1,15	F4BC 103-CPSS-DFH
	83	16,3	11,2	0,475		0,52	
$1\frac{1}{4}$ 31,75	3,25	3 660	2 520	107	700	3,1	F4BSS 104S-CPSS-DFH
	82,6	16,3	11,2	0,475		1,4	
	3,27	3 660	2 520	107	700	1,1	F4BC 104S-CPSS-DFH
	83	16,3	11,2	0,475		0,5	
	3,62	4 860	3 440	147	500	1,7	F4BC 104-CPSS-DFH
	92	21,6	15,3	0,655		0,78	
3,63	4 860	3 440	147	500	4,1	F4BSS 104-CPSS-DFH	
	92,1	21,6	15,3	0,655		1,85	
$1\frac{3}{8}$ 34,925	3,62	4 860	3 440	147	500	1,65	F4BC 106-CPSS-DFH
	92	21,6	15,3	0,655		0,74	
	3,63	4 860	3 440	147	500	3,95	F4BSS 106-CPSS-DFH
	92,1	21,6	15,3	0,655		1,8	



F4BSS.. -DFH (stainless steel housing)

F4BESS.. -DFH (stainless steel housing) - compact unit

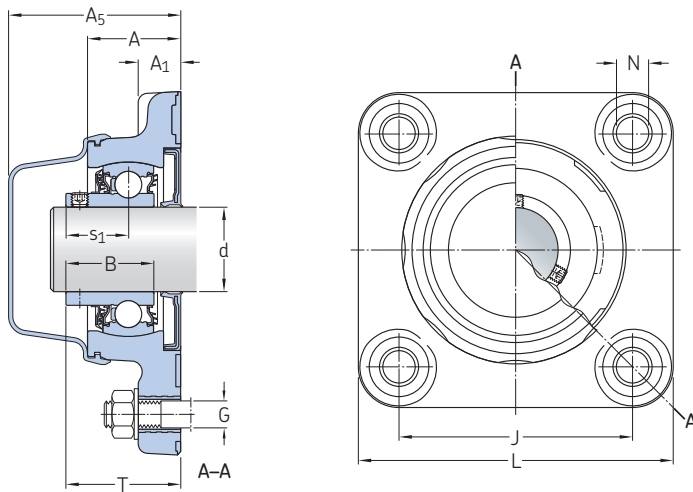
Dimensions

d	A	A ₁	A ₅	B	L	N	G	s ₁	T
in/mm									
3/4	1,06	0,59	2,14	1	3,62	0,45	3/8	0,72	1,38
19,05	27	15	54,3	25,3	92	11,5	10	18,3	35
	1,02	0,44	2,08	1	3,37	0,44	3/8	0,72	1,32
	25,8	11,1	52,9	25,3	85,7	11,1	10	18,3	33,6
1	1,16	0,53	2,2	1,07	3,75	0,45	7/16	0,78	1,44
25,4	29,4	13,5	56	27,3	95,3	11,5	10	19,8	36,5
	1,14	0,59	2,2	1,07	3,9	0,45	3/8	0,78	1,46
	29	15	55,8	27,3	99	11,5	10	19,8	37
1 1/8	1,3	0,59	2,41	1,23	4,41	0,45	3/8	0,87	1,6
28,575	33	15	61,1	31,2	112	11,5	10	22,2	40,7
1 3/16	1,35	0,49	2,46	1,23	4,33	0,47	7/16	0,87	1,65
30,163	34,3	12,5	62,4	31,2	110	12	10	22,2	42
	1,3	0,59	2,41	1,23	4,41	0,45	3/8	0,87	1,6
	33	15	61,1	31,2	112	11,5	10	22,2	40,7
1 1/4	1,35	0,49	2,45	1,23	4,33	0,47	7/16	0,87	1,65
31,75	34,3	12,5	62,2	31,2	110	12	10	22,2	42
	1,3	0,59	2,41	1,23	4,41	0,45	3/8	0,87	1,61
	33	15	61,3	31,2	112	11,5	10	22,2	40,9
	1,42	0,67	2,55	1,37	4,92	0,56	1/2	1	1,78
	36	17	64,8	34,9	125	14,2	12	25,4	45,1
	1,41	0,56	2,53	1,37	4,63	0,56	1/2	1	1,81
	35,7	14,3	64,3	34,9	117,5	14,3	12	25,4	46
1 3/8	1,42	0,67	2,55	1,37	4,92	0,56	1/2	1	1,78
34,925	36	17	64,8	34,9	125	14,2	12	25,4	45,1
	1,41	0,56	2,53	1,37	4,63	0,56	1/2	1	1,81
	35,7	14,3	64,3	34,9	117,5	14,3	12	25,4	46

C Product data

1.4 Square flanged sealed ball bearing units (DFH), inch shafts

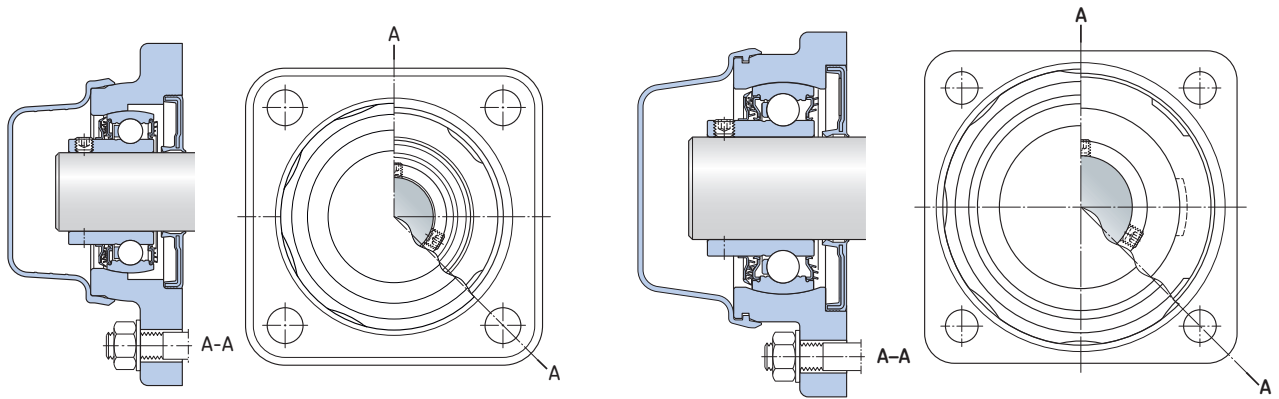
d $1\frac{7}{16}$ – $1\frac{15}{16}$ in
36,513 – 49,213 mm



F4BC.. -DFH (composite housing)

Principal dimensions		Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designation
d	J	C	C ₀				
in/mm		lbf/kN		lbf/kN	r/min	lb/kg	–
$1\frac{7}{16}$ 36,513	3,62	4 860	3 440	147	500	1,55	F4BC 107-CPSS-DFH
	92	21,6	15,3	0,655	500	0,71	F4BSS 107-CPSS-DFH
	92,1	21,6	15,3	0,655		3,85 1,75	
$1\frac{1}{2}$ 38,1	3,27	5 550	4 270	180	500	3,85	F4BESS 108-CPSS-DFH ¹⁾
	83	24,7	19	0,8		1,75	
	4	5 550	4 270	180	500	5,05	F4BSS 108-CPSS-DFH
	101,6	24,7	19	0,8		2,3	
	4,02	5 550	4 270	180	500	2,1	F4BC 108-CPSS-DFH
	102	24,7	19	0,8		0,95	
$1\frac{15}{16}$ 49,213	4,37	6 650	5 220	220	500	2,65	F4BC 115-CPSS-DFH
	111	29,6	23,2	0,98		1,2	

¹⁾ Compact units



F4BSS.. -DFH (stainless steel housing)

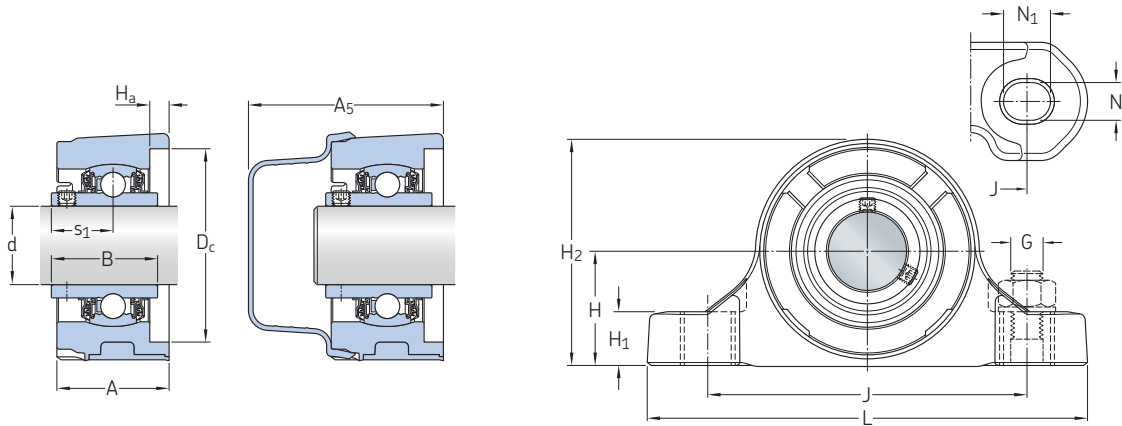
F4BESS.. -DFH (stainless steel housing) - compact unit

Dimensions

d	A	A ₁	A ₅	B	L	N	G	s ₁	T
in/mm									
1 7/16	1,42	0,67	2,55	1,37	4,92	0,56	1/2	1	1,78
36,513	36	17	64,8	34,9	125	14,2	12	25,4	45,1
	1,41	0,56	2,53	1,37	4,63	0,56	1/2	1	1,81
	35,7	14,3	64,3	34,9	117,5	14,3	12	25,4	46
1 1/2	1,53	0,56	2,71	1,6	4,33	0,45	3/8	1,19	2,09
38,1	38,9	14,3	68,8	40,7	110	11,5	10	30,2	53,2
	1,53	0,56	2,71	1,6	5,13	0,56	1/2	1,19	2,09
	38,9	14,3	68,8	40,7	130,2	14,3	12	30,2	53,2
	1,5	0,67	2,68	1,6	5,31	0,56	1/2	1,19	2
	38	17	68,1	40,7	135	14,2	12	30,2	50,9
1 15/16	1,65	0,75	3,38	1,72	6,02	0,69	5/8	1,28	2,12
49,213	42	19	85,8	43,6	153	17,5	16	32,6	53,8

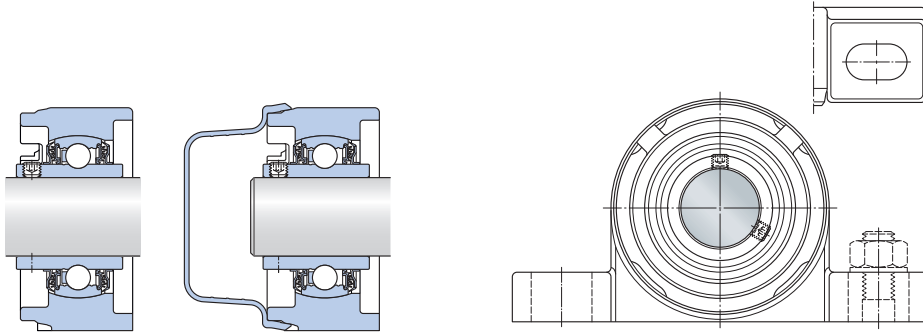
C Product data

1.5 Plummer block ball bearing units, metric shafts
d 20 – 50 mm



P2BC (composite housing)

Principal dimensions			Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designations	Associated end cover
d	H	J	C	C ₀	P _u	with shaft tolerance h6	kg	Bearing unit	
mm			kN		kN	r/min		–	
20	33,3	95	10,8	6,55	0,28	5 000	0,27	P2BC 20M-TPSS	ECB 504
	33,3	95	12,7	6,55	0,28	5 000	0,27	P2BC 20M-TPZM	ECB 504
	33,3	96,8	10,8	6,55	0,28	5 000	0,65	P2BSS 20M-TPSS	ECB 504
25	36,5	101,7	11,9	7,8	0,335	4 300	0,87	P2BSS 25M-TPSS	ECB 505
	36,5	105	11,9	7,8	0,335	4 300	0,34	P2BC 25M-TPSS	ECB 505
	36,5	105	14	7,8	0,335	4 300	0,34	P2BC 25M-TPZM	ECB 505
30	42,9	117,5	16,3	11,2	0,475	3 800	1,2	P2BSS 30M-TPSS	ECB 506
	42,9	119	16,3	11,2	0,475	3 800	0,52	P2BC 30M-TPSS	ECB 506
	42,9	119	19,5	11,2	0,475	3 800	0,52	P2BC 30M-TPZM	ECB 506
35	47,6	126,2	21,6	15,3	0,655	3 200	1,7	P2BSS 35M-TPSS	ECB 507
	47,6	127	21,6	15,3	0,655	3 200	0,68	P2BC 35M-TPSS	ECB 507
	47,6	127	25,5	15,3	0,655	3 200	0,68	P2BC 35M-TPZM	ECB 507
40	49,2	135,7	24,7	19	0,8	2 800	2,05	P2BSS 40M-TPSS	ECB 508
	49,2	137	24,7	19	0,8	2 800	0,86	P2BC 40M-TPSS	ECB 508
	49,2	137	30,7	19	0,8	2 800	0,86	P2BC 40M-TPZM	ECB 508
50	57,2	159,5	29,6	23,2	0,98	2 200	1,1	P2BC 50M-TPSS	ECB 510
	57,2	159,5	35,1	23,2	0,98	2 200	1,1	P2BC 50M-TPZM	ECB 510



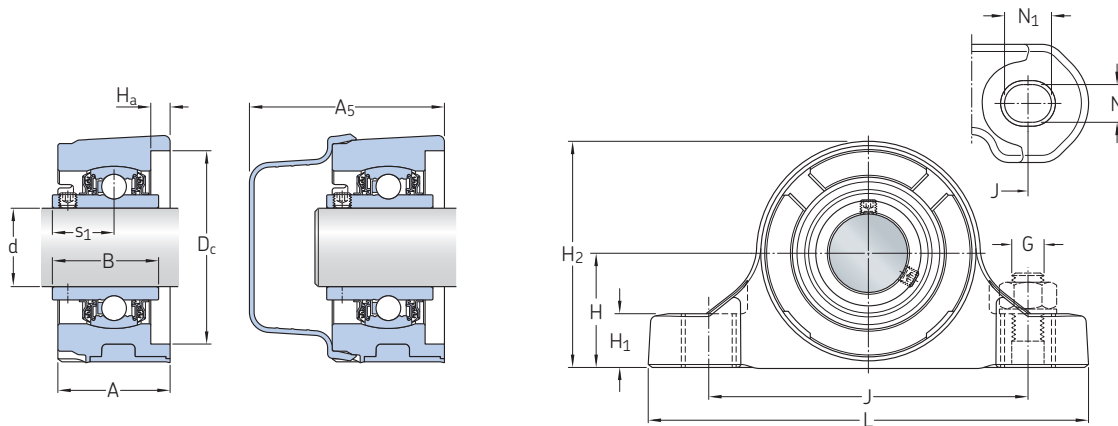
P2BSS (stainless steel housing)

Dimensions

d	A	A ₁	A ₅	B	D _C	H ₁	H ₂	H _a	L	N	N ₁	G	s ₁
mm													
20	36	–	63,1	31	52	17	64,6	6	129	11,5	14,3	10	18,3
	36	–	63,1	31	52	17	64,6	6	129	11,5	14,3	10	18,3
	29	35	61,6	31	52	14	63,5	6,2	127	11,5	21	10	18,3
25	31	36	62,6	34,1	62	16	71,5	6,2	133,5	11,5	19,5	10	19,8
	36	–	62,6	34,1	62	17	72,5	6	142	11,5	14,3	10	19,8
	36	–	62,6	34,1	62	17	72,5	6	142	11,5	14,3	10	19,8
30	34	39	67,1	38,1	72	16,5	83	6,2	152,5	14,5	24	12	22,2
	40	–	68,1	38,1	72	20	84	6	161	14,2	17,4	12	22,2
	40	–	68,1	38,1	72	20	84	6	161	14,2	17,4	12	22,2
35	38	44	72,1	42,9	82	19	92,5	6,2	160,5	14,5	21,5	12	25,4
	40	–	68,6	42,9	82	20	93,6	6	169	14,2	17,4	12	25,4
	40	–	68,6	42,9	82	20	93,6	6	169	14,2	17,4	12	25,4
40	42	48	77,9	49,2	88	19	97	6,2	174,5	14,5	24,5	12	30,2
	44	–	73,9	49,2	88	20	98,2	6	179	14,2	17,4	12	30,2
	44	–	73,9	49,2	88	20	98,2	6	179	14,2	17,4	12	30,2
50	44	–	76	51,6	98	23	110,5	6	208	17,5	24	16	32,6
	44	–	76	51,6	98	23	110,5	6	208	17,5	24	16	32,6

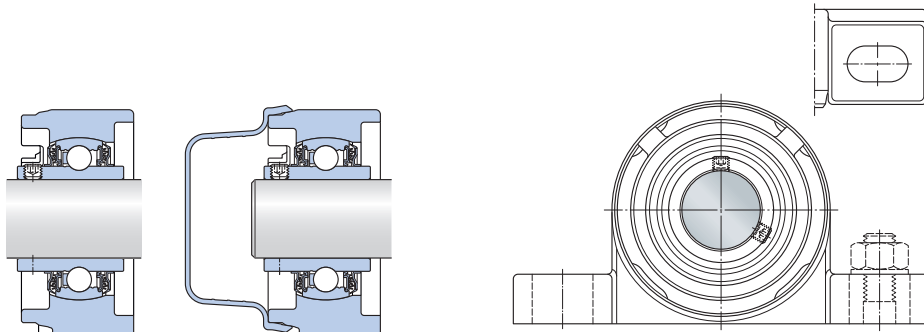
1.5 Plummer block ball bearing units, inch shafts

d 3/4 – 1 1/4 in
19,05 – 31,75 mm



P2BC (composite housing)

Principal dimensions			Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designations	Associated
d	H	J	C	C ₀	P _u	with shaft tolerance h6		Bearing unit	end cover
in/mm			lbf/kN		lbf/kN	r/min	lb/kg	–	
3/4 19,05	1,31	3,74	2 430	1 470	62,9	5 000	0,62	P2BC 012-TPSS	ECB 504
	33,3	95	10,8	6,55	0,28		0,28		
	1,31	3,74	2 860	1 470	62,9	5 000	0,62	P2BC 012-TPZM	ECB 504
	33,3	95	12,7	6,55	0,28		0,28		
	1,31	3,81	2 430	1 470	62,9	5 000	1,45	P2BSS 012-TPSS	ECB 504
	33,3	96,8	10,8	6,55	0,28		0,66		
15/16 23,813	1,44	4,13	3 150	1 750	75,3	4 300	0,77	P2BC 015-TPZM	ECB 505
	36,5	105	14	7,8	0,335		0,35		
1 25,4	1,44	4	2 680	1 750	75,3	4 300	1,9	P2BSS 100-TPSS	ECB 505
	36,5	101,7	11,9	7,8	0,335		0,87		
	1,44	4,13	2 680	1 750	75,3	4 300	0,75	P2BC 100-TPSS	ECB 505
	36,5	105	11,9	7,8	0,335		0,34		
	1,44	4,13	3 150	1 750	75,3	4 300	0,75	P2BC 100-TPZM	ECB 505
	36,5	105	14	7,8	0,335		0,34		
1 3/16 30,163	1,69	4,63	3 660	2 520	107	3 800	2,65	P2BSS 103-TPSS	ECB 506
	42,9	117,5	16,3	11,2	0,475		1,2		
	1,69	4,69	3 660	2 520	107	3 800	1,1	P2BC 103-TPSS	ECB 506
	42,9	119	16,3	11,2	0,475		0,51		
	1,69	4,69	4 380	2 520	107	3 800	1,15	P2BC 103-TPZM	ECB 506
	42,9	119	19,5	11,2	0,475		0,52		
1 1/4 31,75	1,69	4,63	3 660	2 520	107	3 800	2,65	P2BSS 104S-TPSS	ECB 506
	42,9	117,5	16,3	11,2	0,475		1,2		
	1,69	4,69	3 660	2 520	107	3 800	1,1	P2BC 104S-TPSS	ECB 506
	42,9	119	16,3	11,2	0,475		0,49		
	1,69	4,69	4 380	2 520	107	3 800	1,1	P2BC 104S-TPZM	ECB 506
	42,9	119	19,5	11,2	0,475		0,49		
	1,87	4,97	4 860	3 440	147	3 200	3,85	P2BSS 104-TPSS	ECB 507
	47,6	126,2	21,6	15,3	0,655		1,75		
	1,87	5	4 860	3 440	147	3 200	1,6	P2BC 104-TPSS	ECB 507
	47,6	127	21,6	15,3	0,655		0,73		
1,87	5	5 730	3 440	147	3 200	1,65	P2BC 104-TPZM	ECB 507	
47,6	127	25,5	15,3	0,655		0,74			



P2BSS (stainless steel housing)

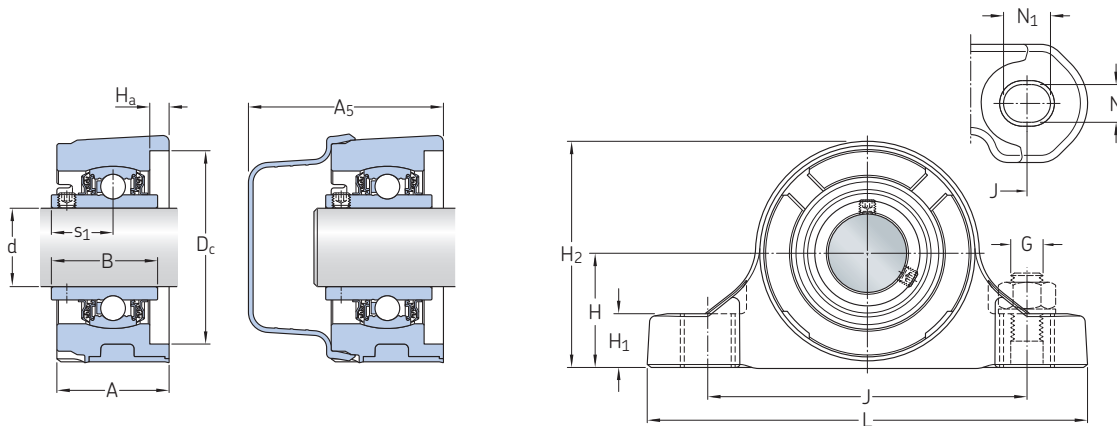
Dimensions

d	A	A ₁	A ₅	B	D _C	H ₁	H ₂	H _a	L	N	N ₁	G	s ₁
in/mm													
3/4 19,05	1,42 36	– –	2,48 63,1	1,22 31	2,05 52	0,67 17	2,54 64,6	0,24 6	5,08 129	0,45 11,5	0,56 14,3	3/8 10	0,72 18,3
	1,42 36	– –	2,48 63,1	1,22 31	2,05 52	0,67 17	2,54 64,6	0,24 6	5,08 129	0,45 11,5	0,56 14,3	3/8 10	0,72 18,3
	1,14 29	1,38 35	2,43 61,6	1,22 31	2,05 52	0,55 14	2,5 63,5	0,24 6,2	5 127	0,45 11,5	0,83 21	3/8 10	0,72 18,3
15/16 23,813	1,42 36	– –	2,46 62,6	1,34 34,1	2,44 62	0,67 17	2,85 72,5	0,24 6	5,59 142	0,45 11,5	0,56 14,3	3/8 10	0,78 19,8
1 25,4	1,22 31	1,42 36	2,46 62,6	1,34 34,1	2,44 62	0,63 16	2,19 55,5	0,24 6,2	5,26 133,5	0,45 11,5	0,77 19,5	3/8 10	0,78 19,8
	1,42 36	– –	2,46 62,6	1,34 34,1	2,44 62	0,67 17	2,85 72,5	0,24 6	5,59 142	0,45 11,5	0,56 14,3	3/8 10	0,78 19,8
	1,42 36	– –	2,46 62,6	1,34 34,1	2,44 62	0,67 17	2,85 72,5	0,24 6	5,59 142	0,45 11,5	0,56 14,3	3/8 10	0,78 19,8
1 3/16 30,163	1,34 34	1,54 39	2,64 67,1	1,5 38,1	2,83 72	0,65 16,5	3,27 83	0,24 6,2	6 152,5	0,57 14,5	0,94 24	1/2 12	0,87 22,2
	1,57 40	– –	2,68 68,1	1,5 38,1	2,83 72	0,79 20	3,31 84	0,24 6	6,34 161	0,56 14,2	0,69 17,4	1/2 12	0,87 22,2
	1,57 40	– –	2,68 68,1	1,5 38,1	2,83 72	0,79 20	3,31 84	0,24 6	6,34 161	0,56 14,2	0,69 17,4	1/2 12	0,87 22,2
1 1/4 31,75	1,34 34	1,54 39	2,64 67,1	1,5 38,1	2,83 72	0,65 16,5	3,27 83	0,24 6,2	6 152,5	0,57 14,5	0,94 24	1/2 12	0,87 22,2
	1,57 40	– –	2,68 68,1	1,5 38,1	2,83 72	0,79 20	3,31 84	0,24 6	6,34 161	0,56 14,2	0,69 17,4	1/2 12	0,87 22,2
	1,57 40	– –	2,68 68,1	1,5 38,1	2,83 72	0,79 20	3,31 84	0,24 6	6,34 161	0,56 14,2	0,69 17,4	1/2 12	0,87 22,2
	1,5 38	1,73 44	2,84 72,1	1,69 42,9	3,23 82	0,75 19	3,64 92,5	0,24 6,2	6,32 160,5	0,57 14,5	0,85 21,5	1/2 12	1 25,4
	1,57 40	1,57 40	2,7 68,6	1,69 42,9	3,23 82	0,79 20	3,69 93,6	0,24 6	6,65 169	0,56 14,2	0,69 17,4	1/2 12	1 25,4
	1,57 40	1,57 40	2,7 68,6	1,69 42,9	3,23 82	0,79 20	3,69 93,6	0,24 6	6,65 169	0,56 14,2	0,69 17,4	1/2 12	1 25,4

C Product data

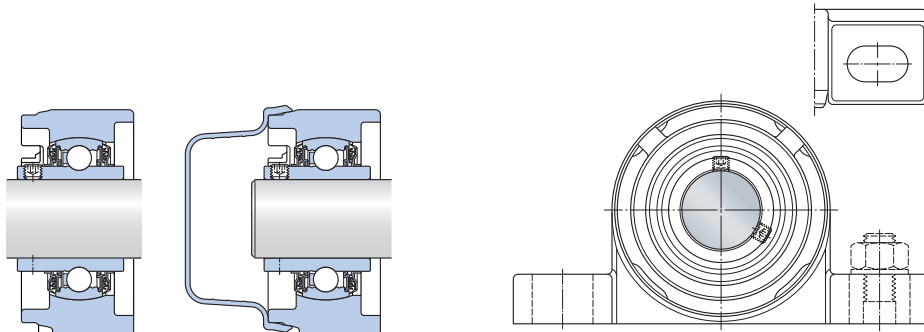
1.5 Plummer block ball bearing units, inch shaft

d $1 \frac{3}{8}$ – $1 \frac{15}{16}$ in
34,925 – 49,213 mm



P2BC (composite housing)

Principal dimensions			Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designations	Associated end cover
d	H	J	C	C ₀	P _u	with shaft tolerance h6		Bearing unit	
in/mm			lbf/kN		lbf/kN	r/min	lb/kg	–	
1 3/8 34,925	1,87	4,97	4 860	3 440	147	3 200	3,75	P2BSS 106-TPSS	ECB 507
	47,6	126,2	21,6	15,3	0,655		1,7		
	1,87	5	4 860	3 440	147	3 200	1,5	P2BC 106-TPSS	ECB 507
	47,6	127	21,6	15,3	0,655		0,68		
	1,87	5	5 730	3 440	147	3 200	1,5	P2BC 106-TPZM	ECB 507
	47,6	127	25,5	15,3	0,655		0,68		
1 7/16 36,513	1,87	4,97	4 860	3 440	147	3 200	3,65	P2BSS 107-TPSS	ECB 507
	47,6	126,2	21,6	15,3	0,655		1,65		
	1,87	5	4 860	3 440	147	3 200	1,45	P2BC 107-TPSS	ECB 507
	47,6	127	21,6	15,3	0,655		0,65		
	1,87	5	5 730	3 440	147	3 200	1,45	P2BC 107-TPZM	ECB 507
	47,6	127	25,5	15,3	0,655		0,65		
1 1/2 38,1	1,94	5,34	5 550	4 270	180	2 800	4,65	P2BSS 108-TPSS	ECB 508
	49,2	135,7	24,7	19	0,8		2,1		
	1,94	5,39	5 550	4 270	180	2 800	2	P2BC 108-TPSS	ECB 508
	49,2	137	24,7	19	0,8		0,9		
	1,94	5,39	6 900	4 270	180	2 800	2	P2BC 108-TPZM	ECB 508
	49,2	137	30,7	19	0,8		0,9		
1 15/16 49,213	2,25	6,28	6 650	5 220	220	2 200	2,55	P2BC 115-TPSS	ECB 510
	57,2	159,5	29,6	23,2	0,98		1,15		
	2,25	6,28	7 890	5 220	220	2 200	2,55	P2BC 115-TPZM	ECB 510
	57,2	159,5	35,1	23,2	0,98		1,15		



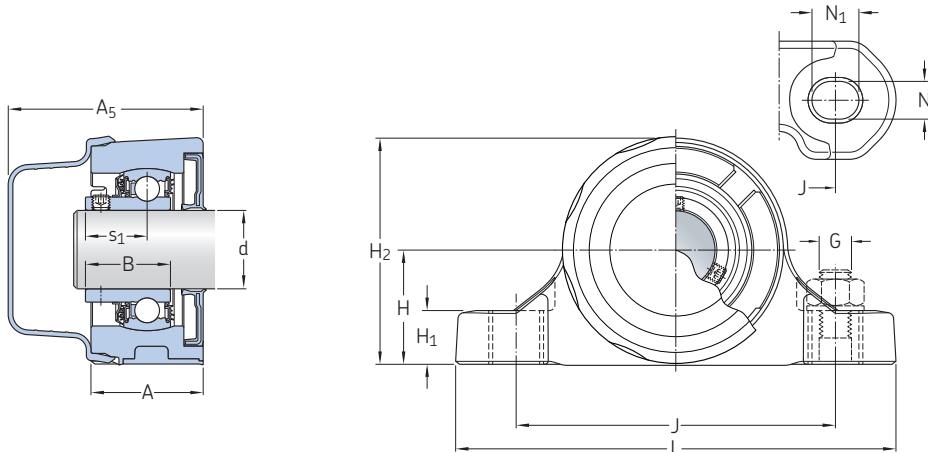
P2BSS (stainless steel housing)

Dimensions

d	A	A ₁	A ₅	B	D _C	H ₁	H ₂	H _a	L	N	N ₁	G	s ₁
in/mm													
1 3/8	1,5	1,73	2,84	1,69	3,23	0,75	3,64	0,24	6,32	0,57	0,85	1/2	1
34,925	38	44	72,1	42,9	82	19	92,5	6,2	160,5	14,5	21,5	12	25,4
	1,57	–	2,7	1,69	3,23	0,79	3,69	0,24	6,65	0,56	0,69	1/2	1
	40	–	68,6	42,9	82	20	93,6	6	169	14,2	17,4	12	25,4
	1,57	–	2,7	1,69	3,23	0,79	3,69	0,24	6,65	0,56	0,69	1/2	1
	40	–	68,6	42,9	82	20	93,6	6	169	14,2	17,4	12	25,4
1 7/16	1,5	1,73	2,84	1,69	3,23	0,75	3,64	0,24	6,32	0,57	0,85	1/2	1
36,513	38	44	72,1	42,9	82	19	92,5	6,2	160,5	14,5	21,5	12	25,4
	1,57	–	2,7	1,69	3,23	0,79	3,69	0,24	6,65	0,56	0,69	1/2	1
	40	–	68,6	42,9	82	20	93,6	6	169	14,2	17,4	12	25,4
	1,57	–	2,7	1,69	3,23	0,79	3,69	0,24	6,65	0,56	0,69	1/2	1
	40	–	68,6	42,9	82	20	93,6	6	169	14,2	17,4	12	25,4
1 1/2	1,65	1,89	3,07	1,94	3,46	0,75	3,82	0,24	6,87	0,57	0,96	1/2	1,19
38,1	42	48	77,9	49,2	88	19	97	6,2	174,5	14,5	24,5	12	30,2
	1,73	–	2,91	1,94	3,46	0,79	3,87	0,24	7,05	0,56	0,69	1/2	1,19
	44	–	73,9	49,2	88	20	98,2	6	179	14,2	17,4	12	30,2
	1,73	–	2,91	1,94	3,46	0,79	3,87	0,24	7,05	0,56	0,69	1/2	1,19
	44	–	73,9	49,2	88	20	98,2	6	179	14,2	17,4	12	30,2
1 15/16	1,73	–	2,99	2,03	3,86	0,91	4,35	0,24	8,19	0,69	0,94	5/8	1,28
49,213	44	–	76	51,6	98	23	110,5	6	208	17,5	24	16	32,6
	1,73	–	2,99	2,03	3,86	0,91	4,35	0,24	8,19	0,69	0,94	5/8	1,28
	44	–	76	51,6	98	23	110,5	6	208	17,5	24	16	32,6

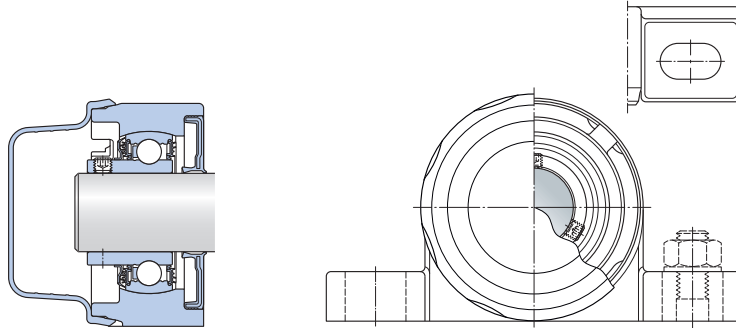
C Product data

1.6 Plummer block sealed ball bearing units (DFH), metric shafts
 d 20 – 50 mm



P2BC.. -DFH (composite housing)

Principal dimensions			Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designation
d	H	J	dynamic	static				
mm			C	C ₀	P _u	r/min	kg	–
20	33,3	95	10,8	6,55	0,28	700	0,29	P2BC 20M-CPSS-DFH
	33,3	96,8	10,8	6,55	0,28	700	0,67	P2BSS 20M-CPSS-DFH
25	36,5	101,7	11,9	7,8	0,335	700	0,89	P2BSS 25M-CPSS-DFH
	36,5	105	11,9	7,8	0,335	700	0,36	P2BC 25M-CPSS-DFH
30	42,9	117,5	16,3	11,2	0,475	700	1,3	P2BSS 30M-CPSS-DFH
	42,9	119	16,3	11,2	0,475	700	0,54	P2BC 30M-CPSS-DFH
35	47,6	126,2	21,6	15,3	0,655	500	1,75	P2BSS 35M-CPSS-DFH
	47,6	127	21,6	15,3	0,655	500	0,7	P2BC 35M-CPSS-DFH
40	49,2	135,7	24,7	19	0,8	500	2,1	P2BSS 40M-CPSS-DFH
	49,2	137	24,7	19	0,8	500	0,87	P2BC 40M-CPSS-DFH
50	57,2	159,5	29,6	23,2	0,98	500	1,1	P2BC 50M-CPSS-DFH



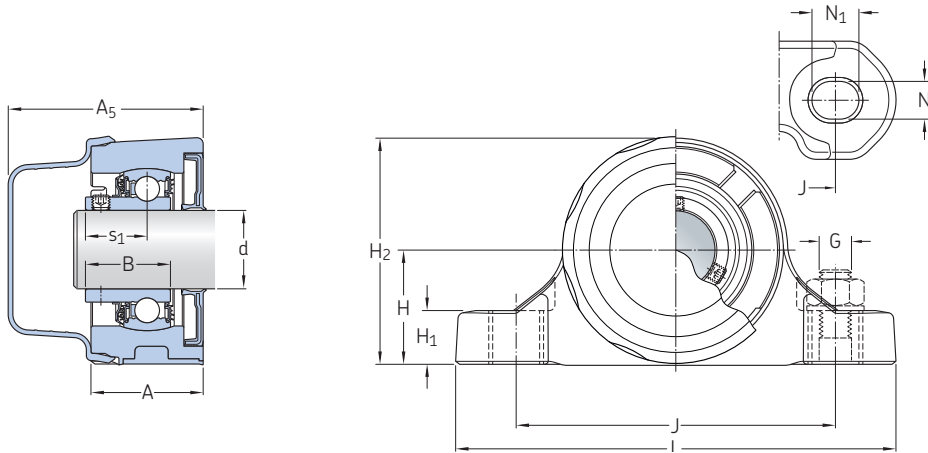
P2BSS .. -DFH (stainless steel housing)

Dimensions

d	A	A ₁	A ₅	B	H ₁	H ₂	L	N	N ₁	G	s ₁
mm											
20	36	–	63,1	25,3	17	64,6	129	11,5	14,3	10	18,3
	29	35	61,6	25,3	14	63,5	127	11,5	21	10	18,3
25	31	36	62,6	27,3	16	55,5	133,5	11,5	19,5	10	19,8
	36	–	62,6	27,3	17	72,5	142	11,5	14,3	10	19,8
30	34	39	67,1	31,2	16,5	83	152,5	14,5	24	12	22,2
	40	–	68,1	31,2	20	84	161	14,2	17,4	12	22,2
35	38	44	72,1	34,9	19	92,5	160,5	14,5	21,5	12	25,4
	40	–	68,6	34,9	20	93,6	169	14,2	17,4	12	25,4
40	42	48	77,9	40,7	19	97	174,5	14,5	24,5	12	30,2
	44	–	73,9	40,7	20	98,2	179	14,2	17,4	12	30,2
50	44	–	72,1	43,6	23	110,5	208	17,5	24	16	32,6

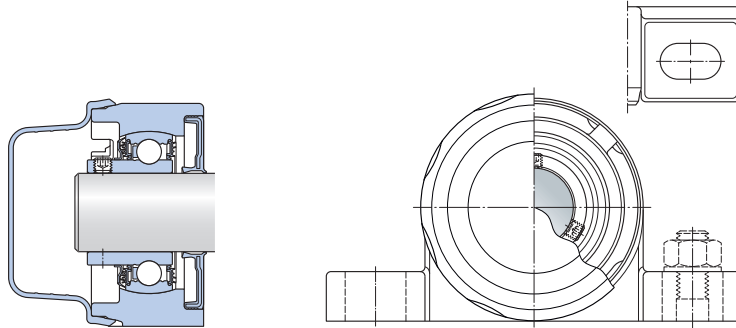
1.6 Plummer block sealed ball bearing units (DFH), inch shafts

d $\frac{3}{4}$ – $1\frac{15}{16}$ in
19,05 – 49,213 mm



P2BC.. -DFH (composite housing)

Principal dimensions			Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designation
d	H	J	C	C ₀				
in/mm			lbf/kN		lbf/kN	r/min	lb/kg	–
$\frac{3}{4}$ 19,05	1,31	3,74	2 430	1 470	62,9	700	0,66	P2BC 012-CPSS-DFH
	33,3	95	10,8	6,55	0,28		0,3	
	1,31	3,81	2 430	1 470	62,9	700	1,5	P2BSS 012-CPSS-DFH
	33,3	96,8	10,8	6,55	0,28		0,68	
1 25,4	1,44	4	2 680	1 750	75,3	700	1,95	P2BSS 100-CPSS-DFH
	36,5	101,7	11,9	7,8	0,335		0,89	
	1,44	4,13	2 680	1 750	75,3	700	0,79	P2BC 100-CPSS-DFH
	36,5	105	11,9	7,8	0,335		0,36	
$1\frac{1}{4}$ 31,75	1,69	4,69	3 660	2 520	107	700	1,15	P2BC 104S-CPSS-DFH
	42,9	119	16,3	11,2	0,475		0,52	
	1,69	4,63	3 660	2 520	107	700	2,85	P2BSS 104S-CPSS-DFH
	42,9	117,5	16,3	11,2	0,475		1,3	
	1,87	4,97	4 860	3 440	147	500	3,95	P2BSS 104-CPSS-DFH
	47,6	126,2	21,6	15,3	0,655		1,8	
	1,87	5	4 860	3 440	147	500	1,65	P2BC 104-CPSS-DFH
	47,6	127	21,6	15,3	0,655		0,74	
$1\frac{3}{8}$ 34,925	1,87	4,97	4 860	3 440	147	500	3,95	P2BSS 106-CPSS-DFH
	47,6	126,2	21,6	15,3	0,655		1,8	
	1,87	5	4 860	3 440	147	500	1,55	P2BC 106-CPSS-DFH
	47,6	127	21,6	15,3	0,655		0,7	
$1\frac{7}{16}$ 36,513	1,87	4,97	4 860	3 440	147	500	3,85	P2BSS 107-CPSS-DFH
	47,6	126,2	21,6	15,3	0,655		1,75	
	1,87	5	4 860	3 440	147	500	1,5	P2BC 107-CPSS-DFH
	47,6	127	21,6	15,3	0,655		0,67	
$1\frac{1}{2}$ 38,1	1,94	5,34	5 550	4 270	180	500	4,75	P2BSS 108-CPSS-DFH
	49,2	135,7	24,7	19	0,8		2,15	
	1,94	5,39	5 550	4 270	180	500	2	P2BC 108-CPSS-DFH
	49,2	137	24,7	19	0,8		0,91	
$1\frac{15}{16}$ 49,213	2,25	6,28	6 650	5 220	220	500	2,55	P2BC 115-CPSS-DFH
	57,2	159,5	29,6	23,2	0,98		1,15	



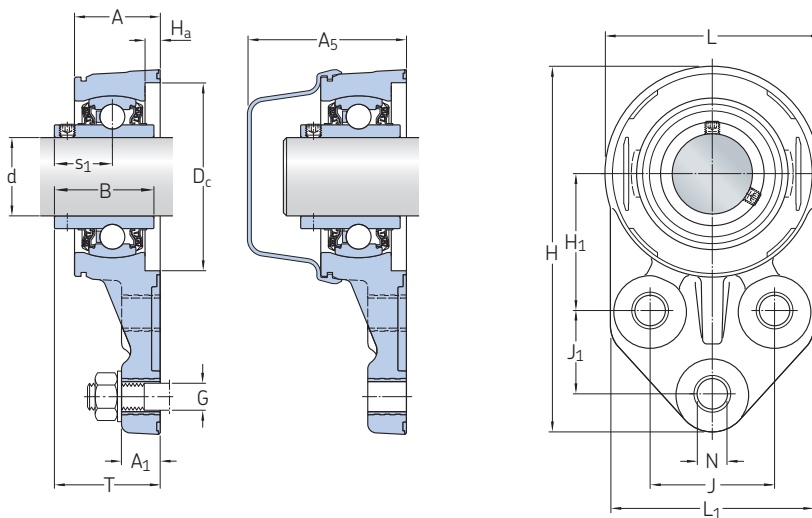
P2BSS .. -DFH (stainless steel housing)

Dimensions

d	A	A ₁	A ₅	B	H ₁	H ₂	L	N	N ₁	G	s ₁
in/mm											
3/4	1,42	–	2,48	1	0,67	2,54	5,08	0,45	0,56	3/8	0,72
19,05	36	–	63,1	25,3	17	64,6	129	11,5	14,3	10	18,3
	1,14	1,38	2,43	1	0,55	2,5	5	0,45	0,83	3/8	0,72
	29	35	61,6	25,3	14	63,5	127	11,5	21	10	18,3
1	1,22	1,42	2,46	1,07	0,63	2,19	5,26	0,45	0,77	3/8	0,78
25,4	31	36	62,6	27,3	16	55,5	133,5	11,5	19,5	10	19,8
	1,42	–	2,46	1,07	0,67	2,85	5,59	0,45	0,56	3/8	0,78
	36	–	62,6	27,3	17	72,5	142	11,5	14,3	10	19,8
1 1/4	1,57	–	2,68	1,23	0,79	3,31	6,34	0,56	0,69	1/2	0,87
31,75	40	–	68,1	31,2	20	84	161	14,2	17,4	12	22,2
	1,34	1,54	2,64	1,23	0,65	3,27	6	0,57	0,94	1/2	0,87
	34	39	67,1	31,2	16,5	83	152,5	14,5	24	12	22,2
	1,5	1,73	2,84	1,37	0,75	3,64	6,32	0,57	0,85	1/2	1
	38	44	72,1	34,9	19	92,5	160,5	14,5	21,5	12	25,4
	1,57	–	2,7	1,37	0,79	3,69	6,65	0,56	0,69	1/2	1
	40	–	68,6	34,9	20	93,6	169	14,2	17,4	12	25,4
1 3/8	1,5	1,73	2,84	1,37	0,75	3,64	6,32	0,57	0,85	1/2	1
34,925	38	44	72,1	34,9	19	92,5	160,5	14,5	21,5	12	25,4
	1,57	–	2,7	1,37	0,79	3,69	6,65	0,56	0,69	1/2	1
	40	–	68,6	34,9	20	93,6	169	14,2	17,4	12	25,4
1 7/16	1,5	1,73	2,84	1,37	0,75	3,64	6,32	0,57	0,85	1/2	1
36,513	38	44	72,1	34,9	19	92,5	160,5	14,5	21,5	12	25,4
	1,57	–	2,7	1,37	0,79	3,69	6,65	0,56	0,69	1/2	1
	40	–	68,6	34,9	20	93,6	169	14,2	17,4	12	25,4
1 1/2	1,65	1,89	3,07	1,6	0,75	3,82	6,87	0,57	0,96	1/2	1,19
38,1	42	48	77,9	40,7	19	97	174,5	14,5	24,5	12	30,2
	1,73	–	2,91	1,6	0,79	3,87	7,05	0,56	0,69	1/2	1,19
	44	–	73,9	40,7	20	98,2	179	14,2	17,4	12	30,2
1 15/16	1,73	–	2,99	1,72	0,91	4,35	8,19	0,69	0,94	5/8	1,28
49,213	44	–	76	43,6	23	110,5	208	17,5	24	16	32,6

1.7 3-bolt bracket flanged ball bearing units, metric shafts

d 20 – 50 mm



Principal dimensions				Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designations	Associated end cover
d	H ₁	J	J ₁	dynamic	static					
mm				C	C ₀	P _u	r/min	kg	–	
20	43	38	22	10,8	6,55	0,28	5 000	0,26	F3BBC 20M-TPSS	ECB 504
	43	38	22	12,7	6,55	0,28	5 000	0,26	F3BBC 20M-TPZM	ECB 504
25	46	41,5	28,5	11,9	7,8	0,335	4 300	0,32	F3BBC 25M-TPSS	ECB 505
	46	41,5	28,5	14	7,8	0,335	4 300	0,32	F3BBC 25M-TPZM	ECB 505
30	52,5	47,5	32	16,3	11,2	0,475	3 800	0,47	F3BBC 30M-TPSS	ECB 506
	52,5	47,5	32	19,5	11,2	0,475	3 800	0,47	F3BBC 30M-TPZM	ECB 506
35	60,5	51	32	21,6	15,3	0,655	3 200	0,66	F3BBC 35M-TPSS	ECB 507
	60,5	51	32	25,5	15,3	0,655	3 200	0,66	F3BBC 35M-TPZM	ECB 507
40	60	50	31	24,7	19	0,8	2 800	0,81	F3BBC 40M-TPSS	ECB 508
	60	50	31	30,7	19	0,8	2 800	0,81	F3BBC 40M-TPZM	ECB 508
50	68	60	46	29,6	23,2	0,98	2 200	1,1	F3BBC 50M-TPSS	ECB 510
	68	60	46	35,1	23,2	0,98	2 200	1,1	F3BBC 50M-TPZM	ECB 510

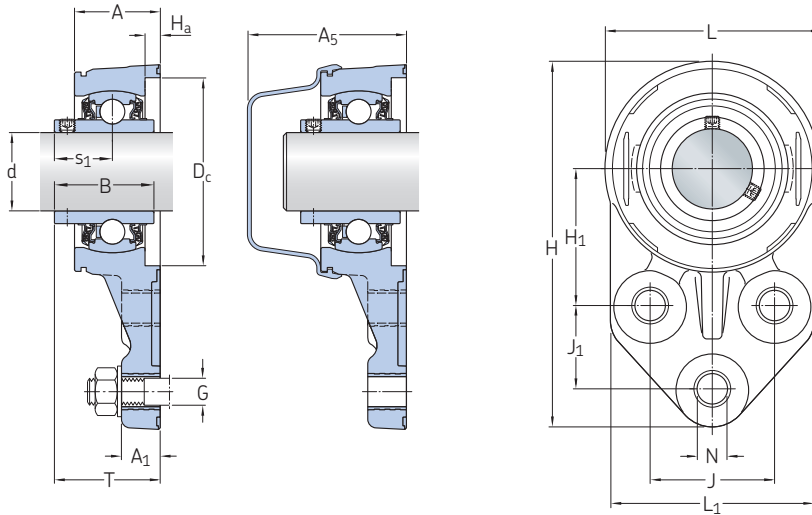
Dimensions

d	A	A ₁	A ₅	B	D _a	H	H _a	L	L ₁	N	G	s ₁	T
mm													
20	27	15	54,1	31	52	114	6	68	68	12	10	18,3	35
	27	15	54,1	31	52	114	6	68	68	12	10	18,3	35,3
25	29	15	55,6	34,1	62	125	6	72	72	12	10	19,8	37
	29	15	55,6	34,1	62	125	6	72	72	12	10	19,8	37,3
30	33	15	61,1	38,1	72	140	6	82	78	12	10	22,2	41,2
	33	15	61,1	38,1	72	140	6	82	78	12	10	22,2	41,2
35	36	17	64,6	42,9	82	155	6	92	86	14	12	25,4	45,1
	36	17	64,6	42,9	82	155	6	92	86	14	12	25,4	45,4
40	38	17	67,9	49,2	88	157	6	98	85	14	12	30,2	38,2
	38	17	67,9	49,2	88	157	6	98	85	14	12	30,2	51,2
50	42	19	74	51,6	98	189	6	108	104	18	16	32,6	53,7
	42	19	74	51,6	98	189	6	108	104	18	16	32,6	54,1

1.7 3-bolt bracket flanged ball bearing units, inch shafts

d 3/4 – 1 3/8 in

19,05 – 34,925 mm



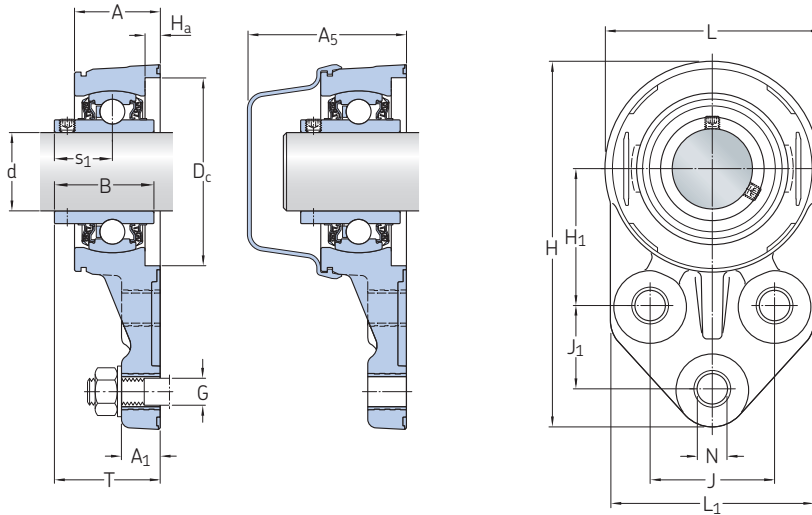
Principal dimensions				Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designations Bearing unit	Associated end cover
d	H ₁	J	J ₁	C	C ₀					
in/mm				lbf/kN		lbf/kN	r/min	lb/kg	–	
3/4 19,05	1.69	1.5	0.87	2 430	1 470	62.9	5 000	0.6	F3BBC 012-TPSS	ECB 504
	43	38	22	10,8	6,55	0,28		0,27		
	1.69	1.5	0.87	2 860	1 470	62.9	5 000	0.57	F3BBC 012-TPZM	ECB 504
	43	38	22	12,7	6,55	0,28		0,26		
15/16 23,813	1.81	1.63	1.12	3 150	1 750	75.3	4 300	0.75	F3BBC 015-TPZM	ECB 505
	46	41,5	28,5	14	7,8	0,335		0,34		
1 25,4	1.81	1.63	1.12	2 680	1 750	75.3	4 300	0.71	F3BBC 100-TPSS	ECB 505
	46	41,5	28,5	11,9	7,8	0,335		0,32		
	1.81	1.63	1.12	3 150	1 750	75.3	4 300	0.71	F3BBC 100-TPZM	ECB 505
	46	41,5	28,5	14	7,8	0,335		0,32		
1 3/16 30,163	2.07	1.87	1.26	3 660	2 520	107	3 800	1.05	F3BBC 103-TPSS	ECB 506
	52,5	47,5	32	16,3	11,2	0,475		0,47		
	2.07	1.87	1.26	4 380	2 520	107	3 800	1.05	F3BBC 103-TPZM	ECB 506
	52,5	47,5	32	19,5	11,2	0,475		0,47		
1 1/4 31,75	2.07	1.87	1.26	3 660	2 520	107	3 800	0.97	F3BBC 104S-TPSS	ECB 506
	52,5	47,5	32	16,3	11,2	0,475		0,44		
	2.07	1.87	1.26	4 380	2 520	107	3 800	0.97	F3BBC 104S-TPZM	ECB 506
	52,5	47,5	32	19,5	11,2	0,475		0,44		
	2.38	2.01	1.26	4 860	3 440	147	3 200	1.6	F3BBC 104-TPSS	ECB 507
	60,5	51	32	21,6	15,3	0,655		0,72		
	2.38	2.01	1.26	5 730	3 440	147	3 200	1.6	F3BBC 104-TPZM	ECB 507
	60,5	51	32	25,5	15,3	0,655		0,72		
1 3/8 34,925	2.38	2.01	1.26	4 860	3 440	147	3 200	1.45	F3BBC 106-TPSS	ECB 507
	60,5	51	32	21,6	15,3	0,655		0,66		
	2.38	2.01	1.26	5 730	3 440	147	3 200	1.45	F3BBC 106-TPZM	ECB 507
	60,5	51	32	25,5	15,3	0,655		0,66		

Dimensions

d	A	A ₁	A ₅	B	D _a	H	H _a	L	L ₁	N	G	s ₁	T
in/mm													
3/4 19,05	1.06	0.59	2.13	1.22	2.05	4.49	0.24	2.68	2.68	0.47	0.375	0.72	1.38
	27	15	54,1	31	52	114	6	68	68	12	10	18,3	35
	1.06	0.59	2.13	1.22	2.05	4.49	0.24	2.68	2.68	0.47	0.375	0.72	1.39
	27	15	54,1	31	52	114	6	68	68	12	10	18,3	35,3
15/16 23,813	1.14	0.59	2.19	1.34	2.44	4.92	0.24	2.83	2.83	0.47	0.375	0.78	1.47
	29	15	55,6	34,1	62	125	6	72	72	12	10	19,8	37,3
1 25,4	1.14	0.59	2.19	1.34	2.44	4.92	0.24	2.83	2.83	0.47	0.375	0.78	1.46
	29	15	55,6	34,1	62	125	6	72	72	12	10	19,8	37
	1.14	0.59	2.19	1.34	2.44	4.92	0.24	2.83	2.83	0.47	0.375	0.78	1.47
	29	15	55,6	34,1	62	125	6	72	72	12	10	19,8	37,3
1 3/16 30,163	1.3	0.59	2.41	1.5	2.83	5.51	0.24	3.23	3.07	0.47	0.375	0.87	1.62
	33	15	61,1	38,1	72	140	6	82	78	12	10	22,2	41,2
	1.3	0.59	2.41	1.5	2.83	5.51	0.24	3.23	3.07	0.47	0.375	0.87	1.62
	33	15	61,1	38,1	72	140	6	82	78	12	10	22,2	41,2
1 1/4 31,75	1.3	0.59	2.41	1.5	2.83	5.51	0.24	3.23	3.07	0.47	0.375	0.87	1.62
	33	15	61,1	38,1	72	140	6	82	78	12	10	22,2	41,2
	1.3	0.59	2.41	1.5	2.83	5.51	0.24	3.23	3.07	0.47	0.375	0.87	1.62
	33	15	61,1	38,1	72	140	6	82	78	12	10	22,2	41,2
	1.42	0.67	2.54	1.69	3.23	6.1	0.24	3.62	3.39	0.55	0.5	1	1.78
	36	17	64,6	42,9	82	155	6	92	86	14	12	25,4	45,1
	1.42	0.67	2.54	1.69	3.23	6.1	0.24	3.62	3.39	0.55	0.5	1	1.79
	36	17	64,6	42,9	82	155	6	92	86	14	12	25,4	45,4
1 3/8 34,925	1.42	0.67	2.54	1.69	3.23	6.1	0.24	3.62	3.39	0.55	0.5	1	1.78
	36	17	64,6	42,9	82	155	6	92	86	14	12	25,4	45,1
	1.42	0.67	2.54	1.69	3.23	6.1	0.24	3.62	3.39	0.55	0.5	1	1.79
	36	17	64,6	42,9	82	155	6	92	86	14	12	25,4	45,4

1.7 3-bolt bracket flanged ball bearing units, inch shafts

d $1\frac{7}{16}$ – $1\frac{15}{16}$ in
36,513 – 49,213 mm

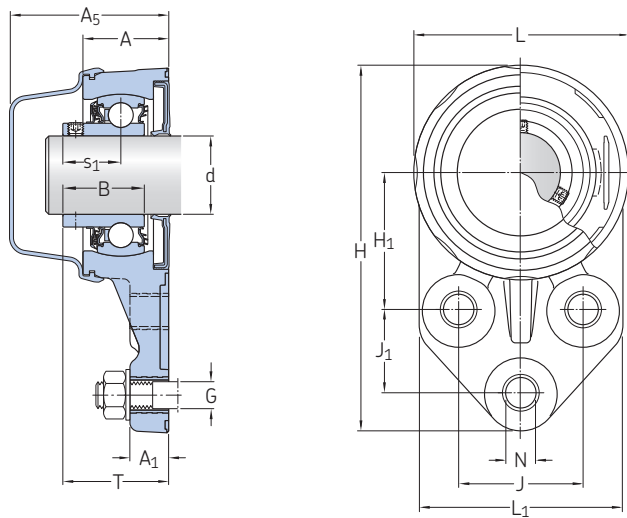


Principal dimensions				Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designations Bearing unit	Associated end cover
d	H ₁	J	J ₁	dynamic	static					
in/mm				lbf/kN		lbf/kN	r/min	lb/kg	–	
1 7/16 36,513	2.38	2.01	1.26	4 860	3 440	147	3 200	1.4	F3BBC 107-TPSS	ECB 507
	60,5	51	32	21,6	15,3	0,655		0,63		
	2.38	2.01	1.26	5 730	3 440	147	3 200	1.45	F3BBC 107-TPZM	ECB 507
	60,5	51	32	25,5	15,3	0,655		0,66		
1 1/2 38,1	2.36	1.97	1.22	5 550	4 270	180	2 800	1.85	F3BBC 108-TPSS	ECB 508
	60	50	31	24,7	19	0,8		0,85		
	2.36	1.97	1.22	6 900	4 270	180	2 800	1.9	F3BBC 108-TPZM	ECB 508
	60	50	31	30,7	19	0,8		0,86		
1 15/16 49,213	2.68	2.36	1.81	6 650	5 220	220	2 200	2.45	F3BBC 115-TPSS	ECB 510
	68	60	46	29,6	23,2	0,98		1,1		
	2.68	2.36	1.81	7 890	5 220	220	2 200	2.45	F3BBC 115-TPZM	ECB 510
	68	60	46	35,1	23,2	0,98		1,1		

Dimensions

d	A	A ₁	A ₅	B	D _a	H	H _a	L	L ₁	N	G	s ₁	T
in/mm													
1 7/16	1.42	0.67	2.54	1.69	3.23	6.1	0.24	3.62	3.39	0.55	0.5	1	1.78
36,513	36	17	64,6	42,9	82	155	6	92	86	14	12	25,4	45,1
	1.42	0.67	2.54	1.69	3.23	6.1	0.24	3.62	3.39	0.55	0.5	1	1.79
	36	17	64,6	42,9	82	155	6	92	86	14	12	25,4	45,4
1 1/2	1.5	0.67	2.67	1.94	3.46	6.18	0.24	3.86	3.35	0.55	0.5	1.19	1.5
38,1	38	17	67,9	49,2	88	157	6	98	85	14	12	30,2	38,2
	1.5	0.67	2.67	1.94	3.46	6.18	0.24	3.86	3.35	0.55	0.5	1.19	2.02
	38	17	67,9	49,2	88	157	6	98	85	14	12	30,2	51,2
1 15/16	1.65	0.75	2.91	2.03	3.86	7.44	0.24	4.25	4.09	0.71	0.625	1.28	2.11
49,213	42	19	74	51,6	98	189	6	108	104	18	16	32,6	53,7
	1.65	0.75	2.91	2.03	3.86	7.44	0.24	4.25	4.09	0.71	0.625	1.28	2.13
	42	19	74	51,6	98	189	6	108	104	18	16	32,6	54,1

1.8 3-bolt bracket flanged sealed ball bearing units (DFH), metric shafts
d 20 – 50 mm



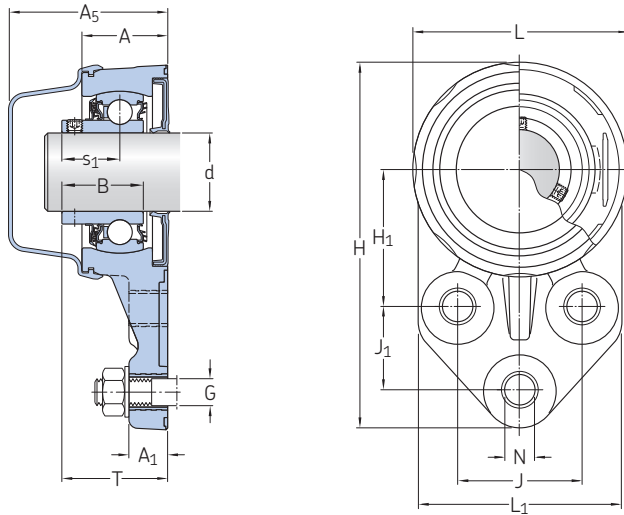
Principal dimensions				Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designation
d	H ₁	J	J ₁	dynamic	static				
mm				kN		kN	r/min	kg	–
20	43	38	22	10,8	6,55	0,28	700	0,28	F3BBC 20M-CPSS-DFH
25	46	41,5	28,5	11,9	7,8	0,335	700	0,34	F3BBC 25M-CPSS-DFH
30	52,5	47,5	32	16,3	11,2	0,475	700	0,49	F3BBC 30M-CPSS-DFH
35	60,5	51	32	21,6	15,3	0,655	500	0,68	F3BBC 35M-CPSS-DFH
40	60	50	31	24,7	19	0,8	500	0,82	F3BBC 40M-CPSS-DFH
50	68	60	46	29,6	23,2	0,98	500	1,1	F3BBC 50M-CPSS-DFH

Dimensions

d	A	A ₁	A ₅	B	H	L	L ₁	N	G	s ₁	T
mm											
20	27	15	54,1	25,3	114	68	68	12	10	18,3	35,3
25	29	15	55,6	27,3	125	72	72	12	10	19,8	37,3
30	33	15	61,1	31,2	140	82	78	12	10	22,2	41,2
35	36	17	64,6	34,9	155	92	86	14	12	25,4	45,4
40	38	17	67,9	40,7	157	98	85	14	12	30,2	51,2
50	42	19	74	43,6	189	108	104	18	16	32,6	54,1

1.8 3-bolt bracket flanged sealed ball bearing units (DFH), inch shafts

d $\frac{3}{4}$ – $1\frac{15}{16}$ in
19,05 – 49,213 mm

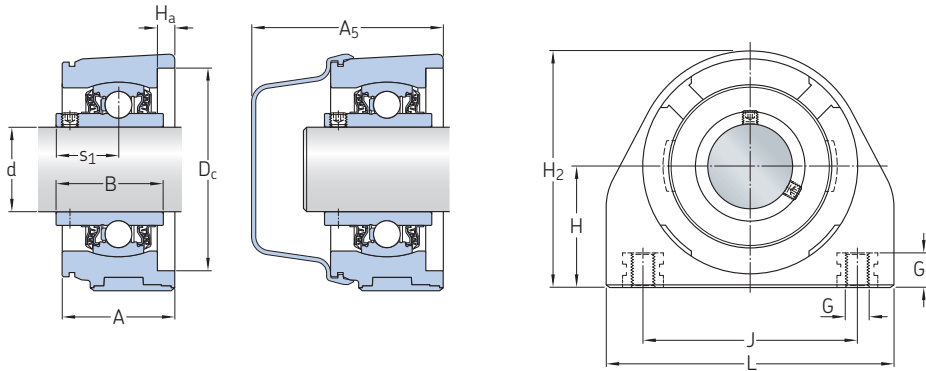


Principal dimensions				Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designation
d	H ₁	J	J ₁	dynamic	static				
in/mm				lbf/kN		lbf/kN	r/min	lb/kg	–
$\frac{3}{4}$ 19,05	1.69 43	1.5 38	0.87 22	2 430 10,8	1 470 6,55	62.9 0,28	700	0.62 0,28	F3BBC 012-CPSS-DFH
1 25,4	1.81 46	1.63 41,5	1.12 28,5	2 680 11,9	1 750 7,8	75.3 0,335	700	0.75 0,34	F3BBC 100-CPSS-DFH
$1\frac{3}{16}$ 30,163	2.07 52,5	1.87 47,5	1.26 32	3 660 16,3	2 520 11,2	107 0,475	700	1.1 0,49	F3BBC 103-CPSS-DFH
$1\frac{1}{4}$ 31,75	2.38 60,5	2.01 51	1.26 32	4 860 21,6	3 440 15,3	147 0,655	700	1.6 0,73	F3BBC 104-CPSS-DFH
	2.07 52,5	1.87 47,5	1.26 32	3 660 16,3	2 520 11,2	107 0,475	700	1.05 0,47	F3BBC 104S-CPSS-DFH
$1\frac{3}{8}$ 34,925	2.38 60,5	2.01 51	1.26 32	4 860 21,6	3 440 15,3	147 0,655	500	1.5 0,68	F3BBC 106-CPSS-DFH
$1\frac{7}{16}$ 36,513	2.38 60,5	2.01 51	1.26 32	4 860 21,6	3 440 15,3	147 0,655	500	1.45 0,66	F3BBC 107-CPSS-DFH
$1\frac{1}{2}$ 38,1	2.36 60	1.97 50	1.22 31	5 550 24,7	4 270 19	180 0,8	500	1.9 0,86	F3BBC 108-CPSS-DFH
$1\frac{15}{16}$ 49,213	2.68 68	2.36 60	1.81 46	6 650 29,6	5 220 23,2	220 0,98	500	2.45 1,1	F3BBC 115-CPSS-DFH

Dimensions

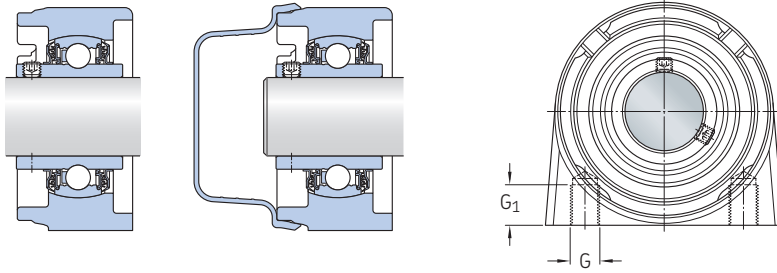
d	A	A ₁	A ₅	B	H	L	L ₁	N	G	s ₁	T
in/mm											
3/4 19,05	1.06 27	0.59 15	2.13 54,1	1 25,3	4.49 114	2.68 68	2.68 68	0.47 12	0.375 10	0.72 18,3	1.39 35,3
1 25,4	1.14 29	0.59 15	2.19 55,6	1.07 27,3	4.92 125	2.83 72	2.83 72	0.47 12	0.375 10	0.78 19,8	1.47 37,3
1 3/16 30,163	1.3 33	0.59 15	2.41 61,1	1.23 31,2	5.51 140	3.23 82	3.07 78	0.47 12	0.375 10	0.87 22,2	1.62 41,2
1 1/4 31,75	1.42 36	0.67 17	2.54 64,6	1.37 34,9	6.1 155	3.62 92	3.39 86	0.55 14	0.5 12	1 25,4	1.79 45,4
	1.3 33	0.59 15	2.41 61,1	1.23 31,2	5.51 140	3.23 82	3.07 78	0.47 12	0.375 10	0.87 22,2	1.62 41,2
1 3/8 34,925	1.42 36	0.67 17	2.54 64,6	1.37 34,9	6.1 155	3.62 92	3.39 86	0.55 14	0.5 12	1 25,4	1.79 45,4
1 7/16 36,513	1.42 36	0.67 17	2.54 64,6	1.37 34,9	6.1 155	3.62 92	3.39 86	0.55 14	0.5 12	1 25,4	1.79 45,4
1 1/2 38,1	1.5 38	0.67 17	2.67 67,9	1.6 40,7	6.18 157	3.86 98	3.35 85	0.55 14	0.5 12	1.19 30,2	2.02 51,2
1 15/16 49,213	1.65 42	0.75 19	2.91 74	1.72 43,6	7.44 189	4.25 108	4.09 104	0.71 18	0.625 16	1.28 32,6	2.13 54,1

1.9 Short base plummer block (tapped base pillow block) ball bearing units, metric shafts
d 20 – 50 mm



P2BTC (composite housing)

Principal dimensions			Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designations	Associated end cover
d	H	J	dynamic	static	P_u	with shaft tolerance h6	kg	Bearing unit	
mm			kN	C_0	kN	r/min	kg	–	
20	33,3	50,8	10,8	6,55	0,28	5 000	0,54	P2BTSS 20M-TPSS	ECB 504
	33,3	51	10,8	6,55	0,28	5 000	0,25	P2BTC 20M-TPSS	ECB 504
	33,3	51	12,7	6,55	0,28	5 000	0,26	P2BTC 20M-TPZM	ECB 504
25	36,5	50,8	11,9	7,8	0,335	4 300	0,73	P2BTSS 25M-TPSS	ECB 505
	36,5	51	11,9	7,8	0,335	4 300	0,32	P2BTC 25M-TPSS	ECB 505
	36,5	51	14	7,8	0,335	4 300	0,32	P2BTC 25M-TPZM	ECB 505
30	42,9	76	16,3	11,2	0,475	3 800	0,5	P2BTC 30M-TPSS	ECB 506
	42,9	76	19,5	11,2	0,475	3 800	0,5	P2BTC 30M-TPZM	ECB 506
	42,9	76,2	16,3	11,2	0,475	3 800	1,05	P2BTSS 30M-TPSS	ECB 506
35	47,6	82,5	21,6	15,3	0,655	3 200	0,64	P2BTC 35M-TPSS	ECB 507
	47,6	82,5	25,5	15,3	0,655	3 200	0,66	P2BTC 35M-TPZM	ECB 507
	47,6	82,6	21,6	15,3	0,655	3 200	1,5	P2BTSS 35M-TPSS	ECB 507
40	49,2	88,9	24,7	19	0,8	2 800	1,75	P2BTSS 40M-TPSS	ECB 508
	49,2	89	24,7	19	0,8	2 800	0,83	P2BTC 40M-TPSS	ECB 508
	49,2	89	30,7	19	0,8	2 800	0,85	P2BTC 40M-TPZM	ECB 508
50	57,2	101,5	29,6	23,2	0,98	2 200	1,05	P2BTC 50M-TPSS	ECB 510
	57,2	101,5	35,1	23,2	0,98	2 200	1,1	P2BTC 50M-TPZM	ECB 510



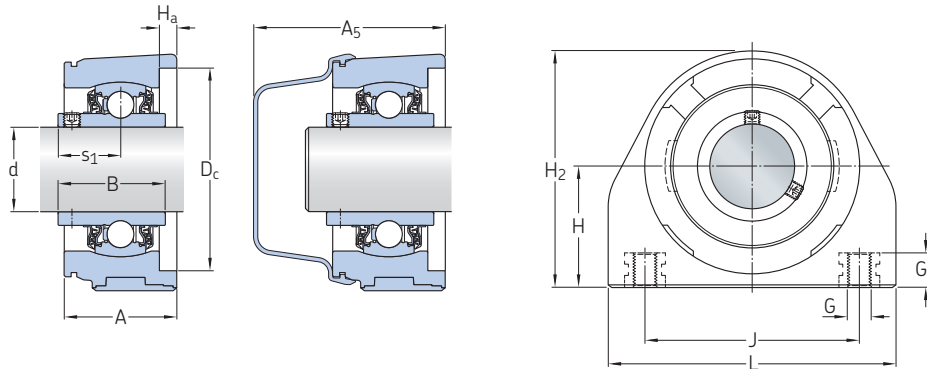
P2BTSS (stainless steel housing)

Dimensions

d	A	A ₁	A ₅	B	D _C	H ₂	H _a	L	G	G ₁	s ₁
mm									–	mm	
20	26	36	63,1	31	52	63,5	6,2	66,7	M10	13	18,3
	36	–	63,1	31	52	64,6	6	75	M8	12	18,3
	36	–	63,1	31	52	64,6	6	75	M8	12	18,3
25	27	37	63,6	34,1	62	71,5	6,2	76,2	M10	13	19,8
	36	–	62,6	34,1	62	72,5	6	81	M10	12	19,8
	36	–	62,6	34,1	62	72,5	6	81	M10	12	19,8
30	40	–	68,1	38,1	72	84	6	102	M10	12	22,2
	40	–	68,1	38,1	72	84	6	102	M10	12	22,2
	28	39	66,6	38,1	72	82,5	6,2	98,4	M10	13	22,2
35	40	–	68,6	42,9	82	93,6	6	110	M10	12	25,4
	40	–	68,6	42,9	82	93,6	6	110	M10	12	25,4
	32	43	71,1	42,9	82	93	6,2	104,8	M12	19	25,4
40	34	46	75,4	49,2	88	98	6,2	114,3	M12	19	30,2
	44	–	73,9	49,2	88	98,2	6	117	M12	16	30,2
	44	–	73,9	49,2	88	98,2	6	117	M12	16	30,2
50	44	–	76	51,6	98	110,5	6	133	M16	21	32,6
	44	–	76	51,6	98	110,5	6	133	M16	21	32,6

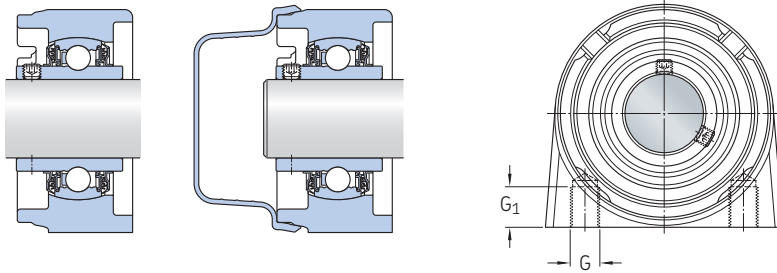
1.9 Short base plummer block (tapped base pillow block) ball bearing units, inch shafts

d $\frac{3}{4}$ – $1\frac{1}{4}$ in
19,05 – 31,75 mm



P2BTC (composite housing)

Principal dimensions			Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designations	Associated end cover
d	H	J	C	C ₀	P _u	with shaft tolerance h6		Bearing unit	
in/mm			lbf/kN		lbf/kN	r/min	lb/kg	–	
$\frac{3}{4}$ 19,05	1,31	2	2 430	1 470	62,9	5 000	1,2	P2BTSS 012-TPSS	ECB 504
	33,3	50,8	10,8	6,55	0,28		0,55		
	1,31	2,01	2 430	1 470	62,9	5 000	0,6	P2BTC 012-TPSS	ECB 504
	33,3	51	10,8	6,55	0,28		0,27		
	1,31	2,01	2 860	1 470	62,9	5 000	0,6	P2BTC 012-TPZM	ECB 504
	33,3	51	12,7	6,55	0,28		0,27		
$\frac{15}{16}$ 23,813	1,44	2,01	3 150	1 750	75,3	4 300	0,75	P2BTC 015-TPZM	ECB 505
	23,813	36,5	14	7,8	0,335		0,34		
1 25,4	1,44	2	2 680	1 750	75,3	4 300	1,6	P2BTSS 100-TPSS	ECB 505
	36,5	50,8	11,9	7,8	0,335		0,73		
	1,44	2,01	2 680	1 750	75,3	4 300	0,71	P2BTC 100-TPSS	ECB 505
	36,5	51	11,9	7,8	0,335		0,32		
	1,44	2,01	3 150	1 750	75,3	4 300	0,71	P2BTC 100-TPZM	ECB 505
	36,5	51	14	7,8	0,335		0,32		
$1\frac{3}{16}$ 30,163	1,69	2,99	3 660	2 520	107	3 800	1,1	P2BTC 103-TPSS	ECB 506
	42,9	76	16,3	11,2	0,475		0,5		
	1,69	2,99	4 380	2 520	107	3 800	1,1	P2BTC 103-TPZM	ECB 506
	42,9	76	19,5	11,2	0,475		0,5		
	1,69	3	3 660	2 520	107	3 800	2,3	P2BTSS 103-TPSS	ECB 506
	42,9	76,2	16,3	11,2	0,475		1,05		
$1\frac{1}{4}$ 31,75	1,69	2,99	3 660	2 520	107	3 800	1,05	P2BTC 104S-TPSS	ECB 506
	42,9	76	16,3	11,2	0,475		0,47		
	1,69	2,99	4 380	2 520	107	3 800	1,05	P2BTC 104S-TPZM	ECB 506
	42,9	76	19,5	11,2	0,475		0,47		
	1,69	3	3 660	2 520	107	3 800	2,3	P2BTSS 104S-TPSS	ECB 506
	42,9	76,2	16,3	11,2	0,475		1,05		
	1,87	3,25	4 860	3 440	147	3 200	1,6	P2BTC 104-TPSS	ECB 507
	47,6	82,5	21,6	15,3	0,655		0,72		
	1,87	3,25	5 730	3 440	147	3 200	1,6	P2BTC 104-TPZM	ECB 507
	47,6	82,5	25,5	15,3	0,655		0,72		
	1,87	3,25	4 860	3 440	147	3 200	3,55	P2BTSS 104-TPSS	ECB 507
	47,6	82,6	21,6	15,3	0,655		1,6		



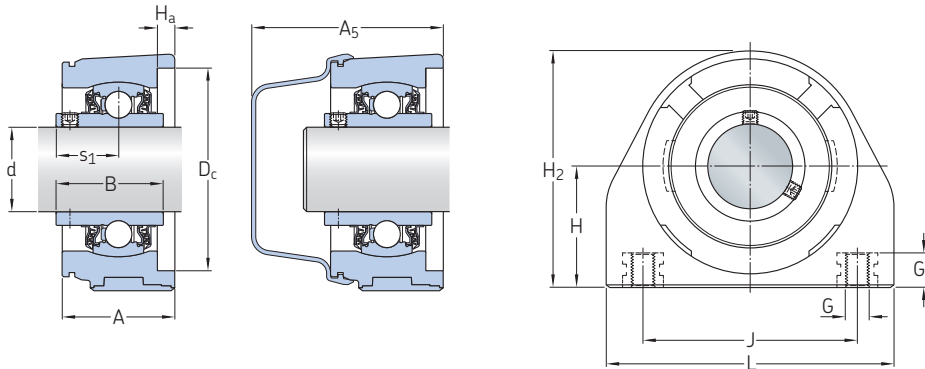
P2BTSS (stainless steel housing)

Dimensions

d	A	A ₁	A ₅	B	D _C	H ₂	H _a	L	G	G ₁	s ₁
in/mm										in/mm	
3/4 19,05	1,02 26	1,42 36	2,48 63,1	1,22 31	2,05 52	2,5 63,5	0,24 6,2	2,63 66,7	3/8-16 UNC	0,51 13	0,72 18,3
	1,42	-	2,48	1,22	2,05	2,54	0,24	2,95	3/8-16 UNC	0,47	0,72
	36	-	63,1	31	52	64,6	6	75	3/8-16 UNC	0,47	18,3
	1,42	-	2,48	1,22	2,05	2,54	0,24	2,95	3/8-16 UNC	0,47	0,72
	36	-	63,1	31	52	64,6	6	75		12	18,3
15/16 23,813	1,42 36	- -	2,46 62,6	1,34 34,1	2,44 62	2,85 72,5	0,24 6	3,19 81	3/8-16 UNC	0,47 12	0,78 19,8
1 25,4	1,06 27	1,46 37	2,5 63,6	1,34 34,1	2,44 62	2,81 71,5	0,24 6,2	3 76,2	3/8-16 UNC	0,51 13	0,78 19,8
	1,42	-	2,46	1,34	2,44	2,85	0,24	3,19	3/8-16 UNC	0,47	0,78
	36	-	62,6	34,1	62	72,5	6	81	3/8-16 UNC	0,47	19,8
	1,42	-	2,46	1,34	2,44	2,85	0,24	3,19	3/8-16 UNC	0,47	0,78
	36	-	62,6	34,1	62	72,5	6	81		12	19,8
1 3/16 30,163	1,57 40	- -	2,68 68,1	1,5 38,1	2,83 72	3,31 84	0,24 6	4,02 102	7/16-14 UNC	0,47 12	0,87 22,2
	1,57	-	2,68	1,5	2,83	3,31	0,24	4,02	7/16-14 UNC	0,47	0,87
	40	-	68,1	38,1	72	84	6	102	7/16-14 UNC	0,47	22,2
	1,1	1,54	2,62	1,5	2,83	3,25	0,24	3,87	7/16-14 UNC	0,51	0,87
	28	39	66,6	38,1	72	82,5	6,2	98,4		13	22,2
1 1/4 31,75	1,57 40	- -	2,68 68,1	1,5 38,1	2,83 72	3,31 84	0,24 6	4,02 102	7/16-14 UNC	0,47 12	0,87 22,2
	1,57	-	2,68	1,5	2,83	3,31	0,24	4,02	7/16-14 UNC	0,47	0,87
	40	-	68,1	38,1	72	84	6	102	7/16-14 UNC	0,47	22,2
	1,1	1,54	2,62	1,5	2,83	3,25	0,24	3,87	7/16-14 UNC	0,51	0,87
	28	39	66,6	38,1	72	82,5	6,2	98,4		13	22,2
	1,57	-	2,7	1,69	3,23	3,69	0,24	4,33	1/2-13 UNC	0,47	1
	40	-	68,6	42,9	82	93,6	6	110		12	25,4
	1,57	-	2,7	1,69	3,23	3,69	0,24	4,33	1/2-13 UNC	0,47	1
	40	-	68,6	42,9	82	93,6	6	110		12	25,4
	1,26	1,69	2,8	1,69	3,23	3,66	0,24	4,13	1/2-13 UNC	0,75	1
	32	43	71,1	42,9	82	93	6,2	104,8		19	25,4

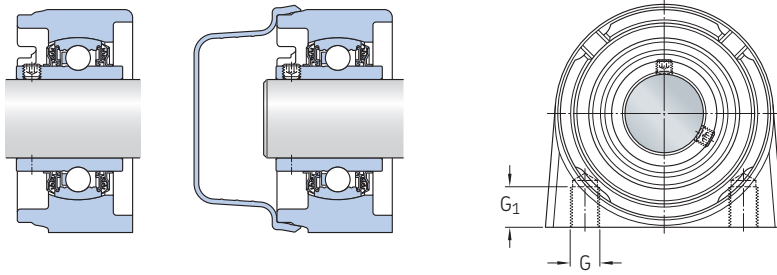
1.9 Short base plummer block (tapped base pillow block) ball bearing units, inch shafts

d $1\frac{3}{8}$ – $1\frac{15}{16}$ in
34,925 – 49,213 mm



P2BTC (composite housing)

Principal dimensions			Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designations	Associated end cover
d	H	J	C	C ₀	P _u	with shaft tolerance h6		Bearing unit	
in/mm			lbf/kN		lbf/kN	r/min	lb/kg	–	
1 3/8 34,925	1,87	3,25	4 860	3 440	147	3 200	1,45	P2BTC 106-TPSS	ECB 507
	47,6	82,5	21,6	15,3	0,655		0,66		
	1,87	3,25	5 730	3 440	147	3 200	1,5	P2BTC 106-TPZM	ECB 507
	47,6	82,5	25,5	15,3	0,655		0,67		
	1,87	3,25	4 860	3 440	147	3 200	3,3	P2BTSS 106-TPSS	ECB 507
	47,6	82,6	21,6	15,3	0,655		1,5		
1 7/16 36,513	1,87	3,25	4 860	3 440	147	3 200	1,4	P2BTC 107-TPSS	ECB 507
	47,6	82,5	21,6	15,3	0,655		0,63		
	1,87	3,25	5 730	3 440	147	3 200	1,5	P2BTC 107-TPZM	ECB 507
	47,6	82,5	25,5	15,3	0,655		0,67		
	1,87	3,25	4 860	3 440	147	3 200	3,3	P2BTSS 107-TPSS	ECB 507
	47,6	82,6	21,6	15,3	0,655		1,5		
1 1/2 38,1	1,94	3,5	5 550	4 270	180	2 800	3,85	P2BTSS 108-TPSS	ECB 508
	49,2	88,9	24,7	19	0,8		1,75		
	1,94	3,5	5 550	4 270	180	2 800	1,9	P2BTC 108-TPSS	ECB 508
	49,2	89	24,7	19	0,8		0,87		
	1,94	3,5	6 900	4 270	180	2 800	1,95	P2BTC 108-TPZM	ECB 508
	49,2	89	30,7	19	0,8		0,89		
1 15/16 49,213	2,25	4	6 650	5 220	220	2 200	2,45	P2BTC 115-TPSS	ECB 510
	57,2	101,5	29,6	23,2	0,98		1,1		
	2,25	4	7 890	5 220	220	2 200	2,45	P2BTC 115-TPZM	ECB 510
	57,2	101,5	35,1	23,2	0,98		1,1		



P2BTSS (stainless steel housing)

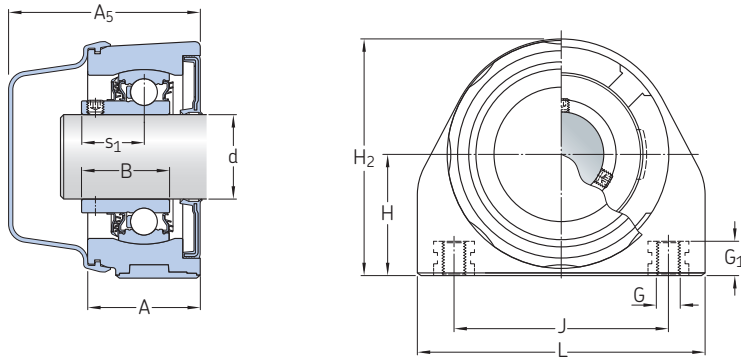
Dimensions

d	A	A ₁	A ₅	B	D _C	H ₂	H _a	L	G	G ₁	s ₁
in/mm									-	in/mm	
1 3/8 34,925	1,57	-	2,7	1,69	3,23	3,69	0,24	4,33	1/2-13 UNC	0,47	1
	40	-	68,6	42,9	82	93,6	6	110		12	25,4
	1,57	-	2,7	1,69	3,23	3,69	0,24	4,33	1/2-13 UNC	0,47	1
	40	-	68,6	42,9	82	93,6	6	110		12	25,4
	1,26	1,69	2,8	1,69	3,23	3,66	0,24	4,13	1/2-13 UNC	0,75	1
32	43	71,1	42,9	82	93	6,2	104,8		19	25,4	
1 7/16 36,513	1,57	-	2,7	1,69	3,23	3,69	0,24	4,33	1/2-13 UNC	0,47	1
	40	-	68,6	42,9	82	93,6	6	110		12	25,4
	1,57	-	2,7	1,69	3,23	3,69	0,24	4,33	1/2-13 UNC	0,47	1
	40	-	68,6	42,9	82	93,6	6	110		12	25,4
	1,26	1,69	2,8	1,69	3,23	3,66	0,24	4,13	1/2-13 UNC	0,75	1
32	43	71,1	42,9	82	93	6,2	104,8		19	25,4	
1 1/2 38,1	1,34	1,81	2,97	1,94	3,46	3,86	0,24	4,5	1/2-13 UNC	0,75	1,19
	34	46	75,4	49,2	88	98	6,2	114,3		19	30,2
	1,73	-	2,91	1,94	3,46	3,87	0,24	4,61	1/2-13 UNC	0,47	1,19
	44	-	73,9	49,2	88	98,2	6	117		12	30,2
	1,73	-	2,91	1,94	3,46	3,87	0,24	4,61	1/2-13 UNC	0,47	1,19
44	-	73,9	49,2	88	98,2	6	117		12	30,2	
1 15/16 49,213	1,73	-	2,99	2,03	3,86	4,35	0,24	5,24	5/8-11 UNC	0,83	1,28
	44	-	76	51,6	98	110,5	6	133		21	32,6
	1,73	-	2,99	2,03	3,86	4,35	0,24	5,24	5/8-11 UNC	0,83	1,28
	44	-	76	51,6	98	110,5	6	133		21	32,6

Product data

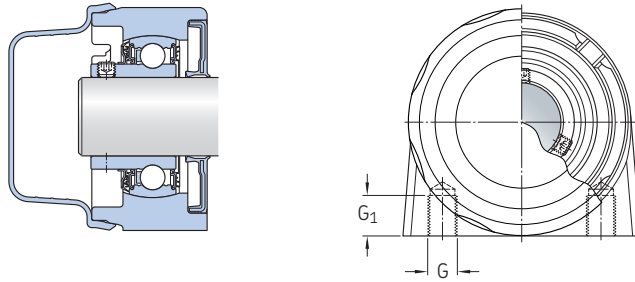
C

1.10 Short base plummer block (tapped base pillow block) sealed ball bearing units (DFH), metric shafts
 d 20 – 50 mm



P2BTC .. -DFH (composite housing)

Principal dimensions			Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designation
d	H	J	C	C ₀				
mm			kN		kN	r/min	kg	–
20	33,3	50,8	10,8	6,55	0,28	700	0,56	P2BTSS 20M-CPSS-DFH P2BTC 20M-CPSS-DFH
	33,3	51	10,8	6,55	0,28	700	0,27	
25	36,5	50,8	11,9	7,8	0,335	700	0,75	P2BTSS 25M-CPSS-DFH P2BTC 25M-CPSS-DFH
	36,5	51	11,9	7,8	0,335	700	0,34	
30	42,9	76	16,3	11,2	0,475	700	0,52	P2BTC 30M-CPSS-DFH P2BTSS 30M-CPSS-DFH
	42,9	76,2	16,3	11,2	0,475	700	1,05	
35	47,6	82,5	21,6	15,3	0,655	500	0,68	P2BTC 35M-CPSS-DFH P2BTSS 35M-CPSS-DFH
	47,6	82,6	21,6	15,3	0,655	500	1,55	
40	49,2	88,9	24,7	19	0,8	500	1,75	P2BTSS 40M-CPSS-DFH P2BTC 40M-CPSS-DFH
	49,2	89	24,7	19	0,8	500	0,86	
50	57,2	101,5	29,6	23,2	0,98	500	1,1	P2BTC 50M-CPSS-DFH



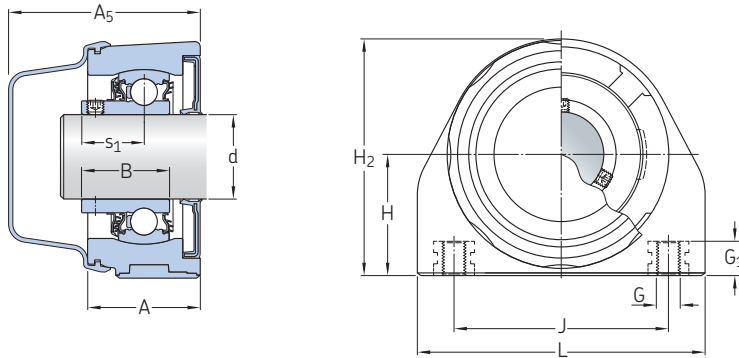
P2BTSS..-DFH (stainless steel housing)

Dimensions

d	A	A ₁	A ₅	B	H ₂	L	G	G ₁	s ₁
mm							–	mm	
20	26 36	36 –	63,1 63,1	25,3 25,3	63,5 64,6	66,7 75	M10 M8	13 12	18,3 18,3
25	27 36	37 –	63,6 62,6	27,3 27,3	71,5 72,5	76,2 81	M10 M10	13 12	19,8 19,8
30	40 28	– 39	68,1 66,6	31,2 31,2	84 82,5	102 98,4	M10 M10	12 13	22,2 22,2
35	40 32	– 43	68,6 71,1	34,9 34,9	93,6 93	110 104,8	M10 M12	12 19	25,4 25,4
40	34 44	46 –	75,4 73,9	40,7 40,7	98 98,2	114,3 117	M12 M12	19 16	30,2 30,2
50	44	–	76	43,6	110,5	133	M16	21	32,6

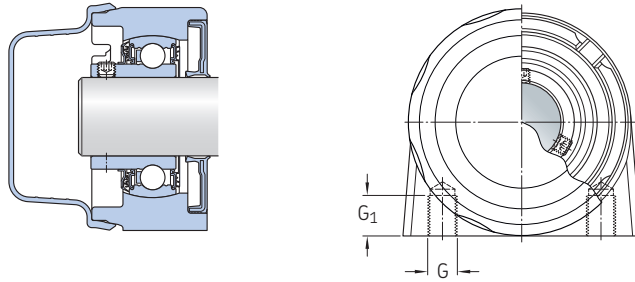
1.10 Short base plummer block (tapped base pillow block) sealed ball bearing units (DFH), inch shafts

d $\frac{3}{4}$ – $1\frac{7}{16}$ in
19,05 – 36,513 mm



P2BTC .. -DFH (composite housing)

Principal dimensions			Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designation
d	H	J	C	C ₀	P _u	with shaft tolerance h6		
in/mm			lbf/kN		lbf/kN	r/min	lb/kg	–
$\frac{3}{4}$ 19,05	1,31	2	2 430	1 470	62,9	700	1,25	P2BTSS 012-CPSS-DFH
	33,3	50,8	10,8	6,55	0,28		0,57	
	1,31	2,01	2 430	1 470	62,9	700	0,62	P2BTC 012-CPSS-DFH
	33,3	51	10,8	6,55	0,28		0,28	
1 25,4	1,44	2	2 680	1 750	75,3	700	1,65	P2BTSS 100-CPSS-DFH
	36,5	50,8	11,9	7,8	0,335		0,75	
	1,44	2,01	2 680	1 750	75,3	700	0,75	P2BTC 100-CPSS-DFH
	36,5	51	11,9	7,8	0,335		0,34	
$1\frac{3}{16}$ 30,163	1,69	2,99	3 660	2 520	107	700	1,1	P2BTC 103-CPSS-DFH
	42,9	76	16,3	11,2	0,475		0,5	
	1,69	3	3 660	2 520	107	700	2,3	P2BTSS 103-CPSS-DFH
	42,9	76,2	16,3	11,2	0,475		1,05	
$1\frac{1}{4}$ 31,75	1,69	2,99	3 660	2 520	107	700	1,1	P2BTC 104S-CPSS-DFH
	42,9	76	16,3	11,2	0,475		0,5	
	1,69	3	3 660	2 520	107	700	2,3	P2BTSS 104S-CPSS-DFH
	42,9	76,2	16,3	11,2	0,475		1,05	
	1,87	3,25	4 860	3 440	147	500	1,6	P2BTC 104-CPSS-DFH
	47,6	82,5	21,6	15,3	0,655		0,73	
	1,87	3,25	4 860	3 440	147	500	3,55	P2BTSS 104-CPSS-DFH
	47,6	82,6	21,6	15,3	0,655		1,6	
$1\frac{3}{8}$ 34,925	1,87	3,25	4 860	3 440	147	500	1,5	P2BTC 106-CPSS-DFH
	47,6	82,5	21,6	15,3	0,655		0,69	
	1,87	3,25	4 860	3 440	147	500	3,4	P2BTSS 106-CPSS-DFH
	47,6	82,6	21,6	15,3	0,655		1,55	
$1\frac{7}{16}$ 36,513	1,87	3,25	4 860	3 440	147	500	1,45	P2BTC 107-CPSS-DFH
	47,6	82,5	21,6	15,3	0,655		0,66	
	1,87	3,25	4 860	3 440	147	500	3,3	P2BTSS 107-CPSS-DFH
	47,6	82,6	21,6	15,3	0,655		1,5	



P2BTSS .. -DFH (stainless steel housing)

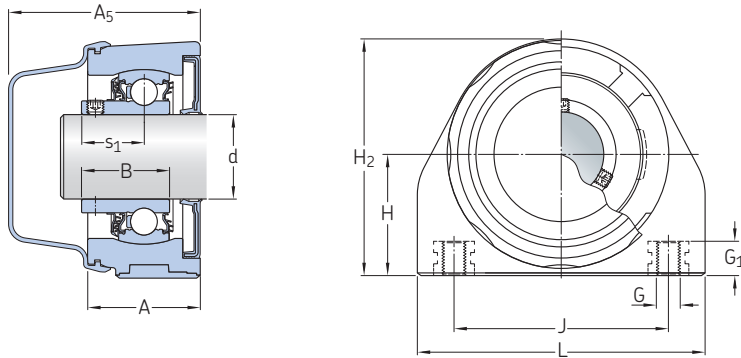
Dimensions

d	A	A ₁	A ₅	B	H ₂	L	G	G ₁	s ₁	
in/mm							-	in/mm		
3/4 19,05	1,02	1,42	2,48	1	2,5	2,63	3/8-16 UNC	0,51	0,72	
	26	36	63,1	25,3	63,5	66,7		13	18,3	
	1,42	-	2,48	1	2,54	2,95	3/8-16 UNC	0,47	0,72	
	36	-	63,1	25,3	64,6	75		12	18,3	
1 25,4	1,06	1,46	2,5	1,07	2,81	3	3/8-16 UNC	0,51	0,78	
	27	37	63,6	27,3	71,5	76,2		13	19,8	
	1,42	-	2,46	1,07	2,85	3,19	3/8-16 UNC	0,47	0,78	
	36	-	62,6	27,3	72,5	81		12	19,8	
1 3/16 30,163	1,57	-	2,68	1,23	3,31	4,02	7/16-14 UNC	0,47	0,87	
	40	-	68,1	31,2	84	102		12	22,2	
	1,1	1,54	2,62	1,23	3,25	3,87	7/16-14 UNC	0,51	0,87	
	28	39	66,6	31,2	82,5	98,4		13	22,2	
1 1/4 31,75	1,57	-	2,68	1,23	3,31	4,02	7/16-14 UNC	0,47	0,87	
	40	-	68,1	31,2	84	102		12	22,2	
	1,1	1,54	2,62	1,23	3,25	3,87	7/16-14 UNC	0,51	0,87	
	28	39	66,6	31,2	82,5	98,4		13	22,2	
	1,57	-	2,7	1,37	3,69	4,33	1/2-13 UNC	0,47	1	
	40	-	68,6	34,9	93,6	110		12	25,4	
	1,26	1,69	2,8	1,37	3,66	4,13	1/2-13 UNC	0,75	1	
	32	43	71,1	34,9	93	104,8		19	25,4	
1 3/8 34,925	1,57	-	2,7	1,37	3,69	4,33	1/2-13 UNC	0,47	1	
	40	-	68,6	34,9	93,6	110		12	25,4	
	1,26	1,69	2,8	1,37	3,66	4,13	1/2-13 UNC	0,75	1	
	32	43	71,1	34,9	93	104,8		19	25,4	
1 7/16 36,513	1,57	-	2,7	1,37	3,69	4,33	1/2-13 UNC	0,47	1	
	40	-	68,6	34,9	93,6	110		12	25,4	
	1,26	1,69	2,8	1,37	3,66	4,13	1/2-13 UNC	0,75	1	
	32	43	71,1	34,9	93	104,8		19	25,4	

C Product data

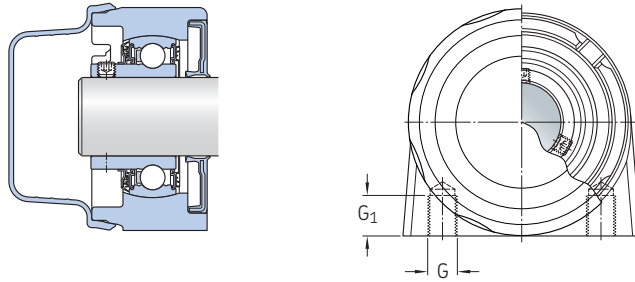
1.10 Short base plummer block (tapped base pillow block) sealed ball bearing units (DFH), inch shafts

d $1\frac{1}{2}$ – $1\frac{15}{16}$ in
38,1 – 49,213 mm



P2BTC .. -DFH (composite housing)

Principal dimensions			Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designation
d	H	J	dynamic	static	P_u	with shaft tolerance h6		
in/mm			lbf/kN		lbf/kN	r/min	lb/kg	–
$1\frac{1}{2}$ 38,1	1,94	3,5	5 550	4 270	180	500	3,95	P2BTSS 108-CPSS-DFH
	49,2	88,9	24,7	19	0,8		1,8	
	1,94	3,5	5 550	4 270	180	500	1,95	P2BTC 108-CPSS-DFH
	49,2	89	24,7	19	0,8		0,89	
$1\frac{15}{16}$ 49,213	2,25	4	6 650	5 220	220	500	2,45	P2BTC 115-CPSS-DFH
	57,2	101,5	29,6	23,2	0,98		1,1	

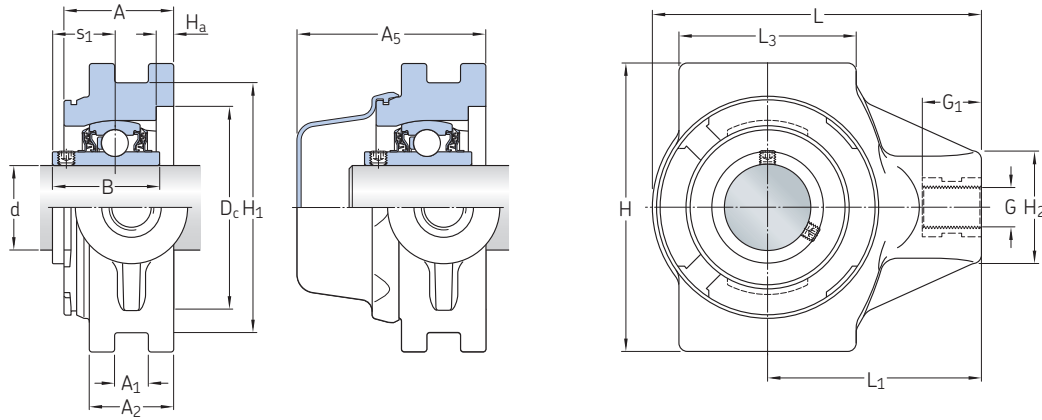


P2BTSS .. -DFH (stainless steel housing)

Dimensions

d	A	A ₁	A ₅	B	H ₂	L	G	G ₁	s ₁	
in/mm							-	in/mm		
1 1/2	1,34	1,81	2,97	1,6	3,86	4,5	1/2-13 UNC	0,75	1,19	
38,1	34	46	75,4	40,7	98	114,3		19	30,2	
	1,73	1,73	2,91	1,6	3,87	4,61	1/2-13 UNC	0,47	1,19	
	44	44	73,9	40,7	98,2	117		12	30,2	
1 15/16	1,73	-	2,99	1,72	4,35	5,24	5/8-11 UNC	0,83	1,28	
49,213	44	-	76	43,6	110,5	133		21	32,6	

1.11 Take-up composite ball bearing units, metric shafts
d 20 – 50 mm



Principal dimensions				Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designations	Associated end cover
d	H ₁	A ₁	G	C	C ₀	P _u	with shaft tolerance h6	kg	Bearing unit	
mm			–	kN		kN	r/min		–	
20	75,8	12	M16	10,8	6,55	0,28	5 000	0,32	WSTUC 20M-TPSS	ECB 504
	75,8	12	M16	12,7	6,55	0,28	5 000	0,32	WSTUC 20M-TPZM	ECB 504
25	75,8	12	M16	11,9	7,8	0,335	4 300	0,36	WSTUC 25M-TPSS	ECB 505
	75,8	12	M16	14	7,8	0,335	4 300	0,36	WSTUC 25M-TPZM	ECB 505
30	88,8	12	M16	16,3	11,2	0,475	3 800	0,57	WSTUC 30M-TPSS	ECB 506
	88,8	12	M16	19,5	11,2	0,475	3 800	0,57	WSTUC 30M-TPZM	ECB 506
35	88,8	12	M16	21,6	15,3	0,655	3 200	0,69	WSTUC 35M-TPSS	ECB 507
	88,8	12	M16	25,5	15,3	0,655	3 200	0,69	WSTUC 35M-TPZM	ECB 507
40	101,8	16	M16	24,7	19	0,8	2 800	0,93	WSTUC 40M-TPSS	ECB 508
	101,8	16	M16	30,7	19	0,8	2 800	0,93	WSTUC 40M-TPZM	ECB 508
50	101,8	16	M20	29,6	23,2	0,98	2 200	1,1	WSTUC 50M-TPSS	ECB 510
	101,8	16	M20	35,1	23,2	0,98	2 200	1,1	WSTUC 50M-TPZM	ECB 510

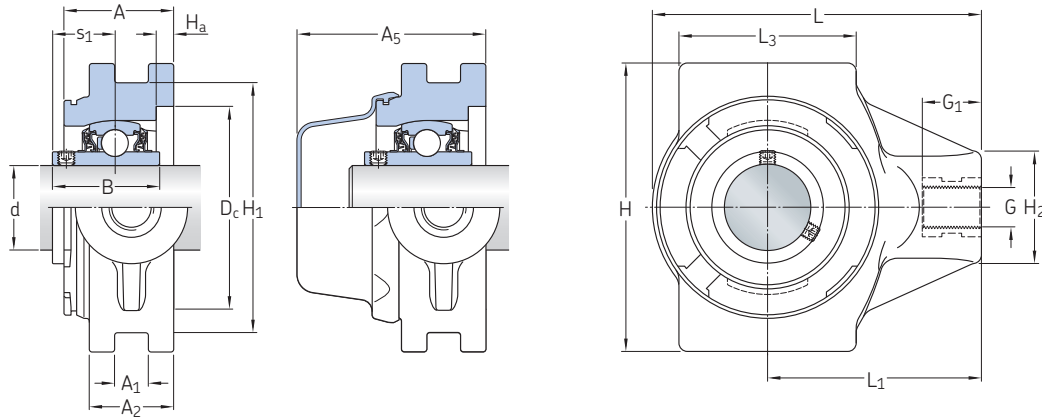
Dimensions

d	A	A ₂	A ₅	B	D _a	H	H ₂	H _a	L	L ₁	L ₃	G ₁	s ₁
mm													
20	33,5 33,5	25 25	60,4 60,4	31 31	52 52	89 89	36 36	6 6	95 95	64 64	47 47	21 21	18,3 18,3
25	33,5 33,5	25 25	59,9 59,9	34,1 34,1	62 62	89 89	36 36	6 6	100 100	64 64	47 47	21 21	19,8 19,8
30	39 39	30 30	67,1 67,1	38,1 38,1	72 72	103 103	40 40	6 6	117 117	76 76	63 63	21 21	22,2 22,2
35	39 39	30 30	67,6 67,6	42,9 42,9	82 82	103 103	40 40	6 6	122 122	76 76	63 63	21 21	25,4 25,4
40	41 41	32 32	70,9 70,9	49,2 49,2	88 88	113 113	46 46	6 6	134 134	85 85	80 80	21 21	30,2 30,2
50	45 45	36 36	77 77	51,6 51,6	98 98	117 117	46 46	6 6	144 144	90 90	85 85	21 21	32,6 32,6

1.11 Take-up composite ball bearing units, inch shafts

d 3/4 – 1 3/8 in

19,05 – 34,925 mm



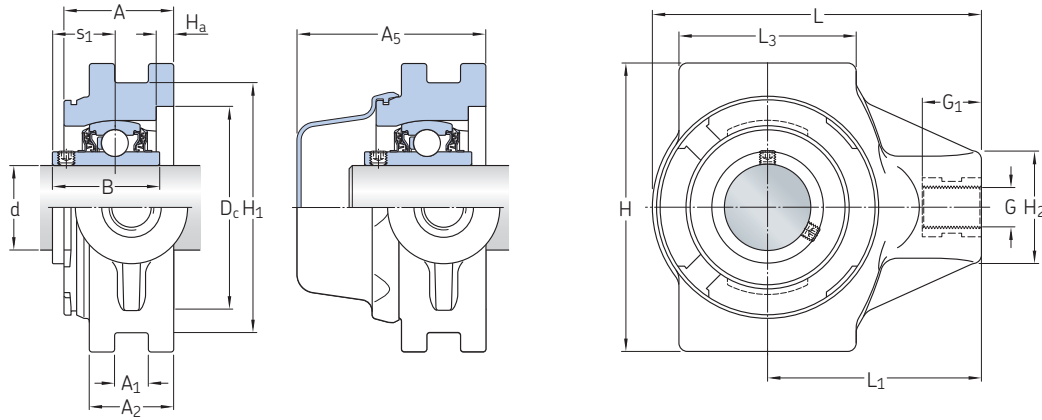
Principal dimensions				Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designations	Associated end cover
d	H ₁	A ₁	G	C	C ₀	P _u	with shaft tolerance h6		Bearing unit	
in/mm				lbf/kN		lbf/kN	r/min	lb/kg	–	
3/4 19,05	2,98	0,47	5/8-11 UNC	2 430	1 470	62,9	5 000	0,73	WSTUC 012-TPSS	ECB 504
	75,8	12		10,8	6,55	0,28		0,33		
	2,98	0,47	5/8-11 UNC	2 860	1 470	62,9	5 000	0,73	WSTUC 012-TPZM	ECB 504
	75,8	12		12,7	6,55	0,28		0,33		
15/16 23,813	2,98	0,47	5/8-11 UNC	3 150	1 750	75,3	4 300	0,84	WSTUC 015-TPZM	ECB 505
	75,8	12		14	7,8	0,335		0,38		
1 25,4	2,98	0,47	5/8-11 UNC	2 680	1 750	75,3	4 300	0,79	WSTUC 100-TPSS	ECB 505
	75,8	12		11,9	7,8	0,335		0,36		
	2,98	0,47	5/8-11 UNC	3 150	1 750	75,3	4 300	0,79	WSTUC 100-TPZM	ECB 505
	75,8	12		14	7,8	0,335		0,36		
1 3/16 30,163	3,5	0,47	3/4-10 UNC	3 660	2 520	107	3 800	1,3	WSTUC 103-TPSS	ECB 506
	88,8	12		16,3	11,2	0,475		0,58		
	3,5	0,47	3/4-10 UNC	4 380	2 520	107	3 800	1,25	WSTUC 103-TPZM	ECB 506
	88,8	12		19,5	11,2	0,475		0,57		
1 1/4 31,75	3,5	0,47	3/4-10 UNC	3 660	2 520	107	3 800	1,2	WSTUC 104S-TPSS	ECB 506
	88,8	12		16,3	11,2	0,475		0,55		
	3,5	0,47	3/4-10 UNC	4 380	2 520	107	3 800	1,2	WSTUC 104S-TPZM	ECB 506
	88,8	12		19,5	11,2	0,475		0,55		
	3,5	0,47	3/4-10 UNC	4 860	3 440	147	3 200	1,65	WSTUC 104-TPSS	ECB 507
	88,8	12		21,6	15,3	0,655		0,75		
	3,5	0,47	3/4-10 UNC	5 730	3 440	147	3 200	1,65	WSTUC 104-TPZM	ECB 507
	88,8	12		25,5	15,3	0,655		0,75		
1 3/8 34,925	3,5	0,47	3/4-10 UNC	4 860	3 440	147	3 200	1,55	WSTUC 106-TPSS	ECB 507
	88,8	12		21,6	15,3	0,655		0,7		
	3,5	0,47	3/4-10 UNC	5 730	3 440	147	3 200	1,55	WSTUC 106-TPZM	ECB 507
	88,8	12		25,5	15,3	0,655		0,7		

Dimensions

d	A	A ₂	A ₅	B	D _a	H	H ₂	H _a	L	L ₁	L ₃	G ₁	s ₁
in/mm													
3/4 19,05	1.32 33,5	0.98 25	2.38 60,4	1.22 31	2.05 52	3.5 89	1.42 36	0.24 6	3.74 95	2.52 64	1.85 47	0.83 21	0.72 18,3
	1.32 33,5	0.98 25	2.38 60,4	1.22 31	2.05 52	3.5 89	1.42 36	0.24 6	3.74 95	2.52 64	1.85 47	0.83 21	0.72 18,3
15/16 23,813	1.32 33,5	0.98 25	2.36 59,9	1.34 34,1	2.44 62	3.5 89	1.42 36	0.24 6	3.94 100	2.52 64	1.85 47	0.83 21	0.78 19,8
1 25,4	1.32 33,5	0.98 25	2.36 59,9	1.34 34,1	2.44 62	3.5 89	1.42 36	0.24 6	3.94 100	2.52 64	1.85 47	0.83 21	0.78 19,8
	1.32 33,5	0.98 25	2.36 59,9	1.34 34,1	2.44 62	3.5 89	1.42 36	0.24 6	3.94 100	2.52 64	1.85 47	0.83 21	0.78 19,8
1 3/16 30,163	1.54 39	1.18 30	2.64 67,1	1.5 38,1	2.83 72	4.06 103	1.57 40	0.24 6	4.61 117	2.99 76	2.48 63	0.83 21	0.87 22,2
	1.54 39	1.18 30	2.64 67,1	1.5 38,1	2.83 72	4.06 103	1.57 40	0.24 6	4.61 117	2.99 76	2.48 63	0.83 21	0.87 22,2
1 1/4 31,75	1.54 39	1.18 30	2.64 67,1	1.5 38,1	2.83 72	4.06 103	1.57 40	0.24 6	4.61 117	2.99 76	2.48 63	0.83 21	0.87 22,2
	1.54 39	1.18 30	2.64 67,1	1.5 38,1	2.83 72	4.06 103	1.57 40	0.24 6	4.61 117	2.99 76	2.48 63	0.83 21	0.87 22,2
	1.54 39	1.18 30	2.66 67,6	1.69 42,9	3.23 82	4.06 103	1.57 40	0.24 6	4.8 122	2.99 76	2.48 63	0.83 21	1 25,4
	1.54 39	1.18 30	2.66 67,6	1.69 42,9	3.23 82	4.06 103	1.57 40	0.24 6	4.8 122	2.99 76	2.48 63	0.83 21	1 25,4
1 3/8 34,925	1.54 39	1.18 30	2.66 67,6	1.69 42,9	3.23 82	4.06 103	1.57 40	0.24 6	4.8 122	2.99 76	2.48 63	0.83 21	1 25,4
	1.54 39	1.18 30	2.66 67,6	1.69 42,9	3.23 82	4.06 103	1.57 40	0.24 6	4.8 122	2.99 76	2.48 63	0.83 21	1 25,4

1.11 Take-up composite ball bearing units, inch shafts

d $1\frac{7}{16}$ – $1\frac{15}{16}$ in
36,513 – 49,213 mm

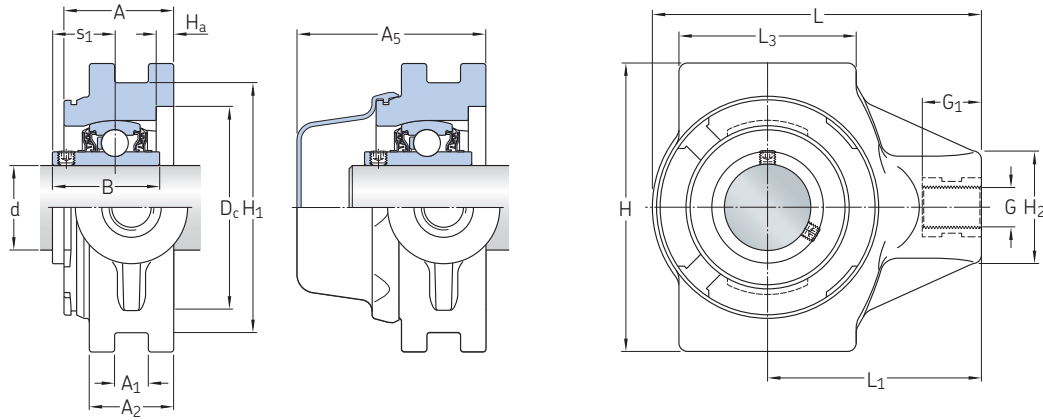


Principal dimensions				Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designations	Associated
d	H ₁	A ₁	G	dynamic	static	P _u	with shaft tolerance h6		Bearing unit	end cover
in/mm			–	lbf/kN		lbf/kN	r/min	lb/kg	–	
1 7/16 36,513	3.5	0.47	3/4-10 UNC	4 860	3 440	147	3 200	1.5	WSTUC 107-TPSS	ECB 507
	88,8	12		21,6	15,3	0,655		0,67		
	3.5	0.47		5 730	3 440	147	3 200	1.55	WSTUC 107-TPZM	ECB 507
	88,8	12		25,5	15,3	0,655		0,7		
1 1/2 38,1	4.01	0.63	1"-8 UNC	5 550	4 270	180	2 800	2.15	WSTUC 108-TPSS	ECB 508
	101,8	16		24,7	19	0,8		0,98		
	4.01	0.63		6 900	4 270	180	2 800	2.2	WSTUC 108-TPZM	ECB 508
	101,8	16		30,7	19	0,8		0,99		
1 15/16 49,213	4.01	0.63	1"-8 UNC	6 650	5 220	220	2 200	2.55	WSTUC 115-TPSS	ECB 510
	101,8	16		29,6	23,2	0,98		1,15		
	4.01	0.63		7 890	5 220	220	2 200	2.55	WSTUC 115-TPZM	ECB 510

Dimensions

d	A	A ₂	A ₅	B	D _a	H	H ₂	H _a	L	L ₁	L ₃	G ₁	s ₁
in/mm													
1 7/16	1.54	1.18	2.66	1.69	3.23	4.06	1.57	0.24	4.8	2.99	2.48	0.83	1
36,513	39	30	67,6	42,9	82	103	40	6	122	76	63	21	25,4
	1.54	1.18	2.66	1.69	3.23	4.06	1.57	0.24	4.8	2.99	2.48	0.83	1
	39	30	67,6	42,9	82	103	40	6	122	76	63	21	25,4
1 1/2	1.61	1.26	2.79	1.94	3.46	4.45	1.81	0.24	5.28	3.35	3.15	0.83	1.19
38,1	41	32	70,9	49,2	88	113	46	6	134	85	80	21	30,2
	1.61	1.26	2.79	1.94	3.46	4.45	1.81	0.24	5.28	3.35	3.15	0.83	1.19
	41	32	70,9	49,2	88	113	46	6	134	85	80	21	30,2
1 15/16	1.77	1.42	3.03	2.03	3.86	4.61	1.81	0.24	5.67	3.54	3.35	0.83	1.28
49,213	45	36	77	51,6	98	117	46	6	144	90	85	21	32,6
	1.77	1.42	3.03	2.03	3.86	4.61	1.81	0.24	5.67	3.54	3.35	0.83	1.28
	45	36	77	51,6	98	117	46	6	144	90	85	21	32,6

1.12 Take-up sealed ball bearing units (DFH), metric shafts
d 20 – 50 mm



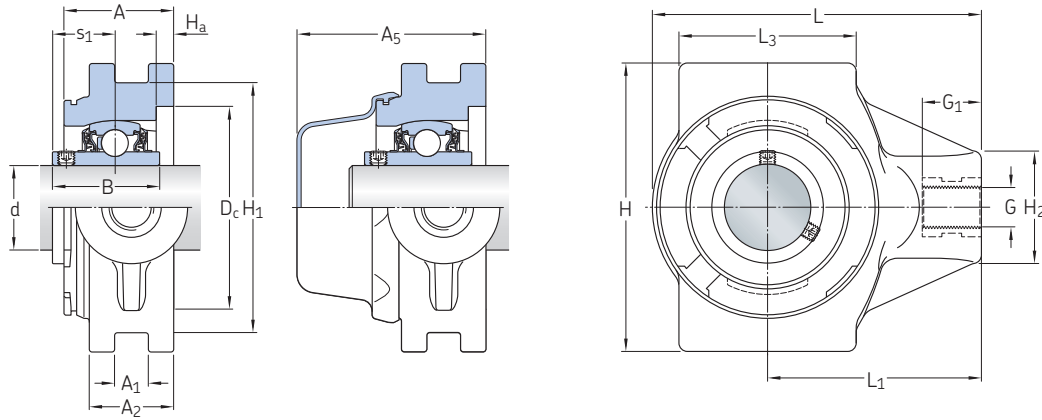
Principal dimensions				Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designation
d	H ₁	A ₁	G	dynamic	static				
mm			–	kN	C ₀	P _u	r/min	kg	–
20	75,8	12	M16	10,8	6,55	0,28	700	0,34	WSTUC 20M-CPSS-DFH
25	75,8	12	M16	11,9	7,8	0,335	700	0,38	WSTUC 25M-CPSS-DFH
30	88,8	12	M16	16,3	11,2	0,475	700	0,59	WSTUC 30M-CPSS-DFH
35	88,8	12	M16	21,6	15,3	0,655	500	0,71	WSTUC 35M-CPSS-DFH
40	101,8	16	M16	24,7	19	0,8	500	0,94	WSTUC 40M-CPSS-DFH
50	101,8	16	M20	29,6	23,2	0,98	500	1,15	WSTUC 50M-CPSS-DFH

Dimensions

d	A	A ₂	A ₅	B	H	H ₂	L	L ₁	L ₃	G ₁	s ₁
<hr/>											
mm											
20	33,5	25	60,4	25,3	89	36	95	64	47	21	18,3
25	33,5	25	59,9	27,3	89	36	100	64	47	21	19,8
30	39	30	67,1	31,2	103	40	117	76	63	21	22,2
35	39	30	67,6	34,9	103	40	122	76	63	21	25,4
40	41	32	70,9	40,7	113	46	134	85	80	21	30,2
50	45	36	77	43,6	117	46	144	90	85	21	32,6

1.12 Take-up sealed ball bearing units (DFH), inch shafts

d $\frac{3}{4}$ – $1\frac{15}{16}$ in
19,05 – 49,213 mm

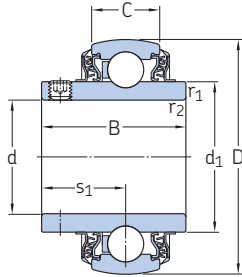


Principal dimensions				Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designation
d	H_1	A_1	G	C dynamic	C_0 static				
in/mm				lbf/kN		lbf/kN	r/min	lb/kg	–
$\frac{3}{4}$ 19,05	2.98 75,8	0.47 12	$\frac{5}{8}$ -11 UNC	2 430 10,8	1 470 6,55	62.9 0,28	700	0.75 0,34	WSTUC 012-CPSS-DFH
1 25,4	2.98 75,8	0.47 12	$\frac{5}{8}$ -11 UNC	2 680 11,9	1 750 7,8	75.3 0,335	700	0.84 0,38	WSTUC 100-CPSS-DFH
$1\frac{3}{16}$ 30,163	3.5 88,8	0.47 12	$\frac{3}{4}$ -10 UNC	3 660 16,3	2 520 11,2	106.8 0,475	700	1.3 0,6	WSTUC 103-CPSS-DFH
$1\frac{1}{4}$ 31,75	3.5 88,8	0.47 12	$\frac{3}{4}$ -10 UNC	3 660 16,3	2 520 11,2	107 0,475	700	1.3 0,58	WSTUC 104S-CPSS-DFH
	3.5 88,8	0.47 12	$\frac{3}{4}$ -10 UNC	4 860 21,6	3 440 15,3	147 0,655	700	1.7 0,76	WSTUC 104-CPSS-DFH
$1\frac{3}{8}$ 34,925	3.5 88,8	0.47 12	$\frac{3}{4}$ -10 UNC	4 860 21,6	3 440 15,3	147 0,655	500	1.6 0,72	WSTUC 106-CPSS-DFH
$1\frac{7}{16}$ 36,513	3.5 88,8	0.47 12	$\frac{3}{4}$ -10 UNC	4 860 21,6	3 440 15,3	147 0,655	500	1.5 0,69	WSTUC 107-CPSS-DFH
$1\frac{1}{2}$ 38,1	4.01 101,8	0.63 16	1"-8 UNC	5 550 24,7	4 270 19	180 0,8	500	2.2 0,99	WSTUC 108-CPSS-DFH
$1\frac{15}{16}$ 49,213	4.01 101,8	0.63 16	1"-8 UNC	6 650 29,6	5 220 23,2	220 0,98	500	2.55 1,15	WSTUC 115-CPSS-DFH

Dimensions

d	A	A ₂	A ₅	B	H	H ₂	L	L ₁	L ₃	G ₁	s ₁
in/mm											
3/4 19,05	1.32 33,5	0.98 25	2.38 60,4	1 25,3	3.5 89	1.42 36	3.74 95	2.52 64	1.85 47	0.83 21	0.72 18,3
1 25,4	1.32 33,5	0.98 25	2.36 59,9	1.07 27,3	3.5 89	1.42 36	3.94 100	2.52 64	1.85 47	0.83 21	0.78 19,8
1 3/16 30,163	1.54 39	1.18 30	2.64 67,1	1.23 31,2	4.06 103	1.57 40	4.61 117	2.99 76	2.48 63	0.83 21	0.87 22,2
1 1/4 31,75	1.54 39	1.18 30	2.64 67,1	1.23 31,2	4.06 103	1.57 40	4.61 117	2.99 76	2.48 63	0.83 21	0.87 22,2
	1.54 39	1.18 30	2.66 67,6	1.37 34,9	4.06 103	1.57 40	4.8 122	2.99 76	2.48 63	0.83 21	1 25,4
1 3/8 34,925	1.54 39	1.18 30	2.66 67,6	1.37 34,9	4.06 103	1.57 40	4.8 122	2.99 76	2.48 63	0.83 21	1 25,4
1 7/16 36,513	1.54 39	1.18 30	2.66 67,6	1.37 34,9	4.06 103	1.57 40	4.8 122	2.99 76	2.48 63	0.83 21	1 25,4
1 1/2 38,1	1.61 41	1.26 32	2.79 70,9	1.6 40,7	4.45 113	1.81 46	5.28 134	3.35 85	3.15 80	0.83 21	1.19 30,2
1 15/16 49,213	1.77 45	1.42 36	3.03 77	1.72 43,6	4.61 117	1.81 46	5.67 144	3.54 90	3.35 85	0.83 21	1.28 32,6

1.13 Stainless steel and zinc-coated insert bearings, metric shafts
d 20 – 50 mm



Principal dimensions							Basic load ratings		Fatigue load limit	Limiting speed	Mass	Designation
d	D	B	C	d ₁ ≈	s ₁	r _{1,2} min.	C	C ₀	P _u	with shaft tolerance h6	kg	–
mm							kN		kN	r/min	kg	–
20	47	31	14	28,2	18,3	0,6	10,8	6,55	0,28	5 000	0,15	YAR 204-2LPW/SS
	47	31	14	28,2	18,3	0,6	12,7	6,55	0,28	5 000	0,15	YAR 204-2LPW/ZM
25	52	34,1	15	33,7	19,8	0,6	11,9	7,8	0,335	4 300	0,19	YAR 205-2LPW/SS
	52	34,1	15	33,7	19,8	0,6	14	7,8	0,335	4 300	0,19	YAR 205-2LPW/ZM
30	62	38,1	18	39,7	22,2	0,6	16,3	11,2	0,475	3 800	0,31	YAR 206-2LPW/SS
	62	38,1	18	39,7	22,2	0,6	19,5	11,2	0,475	3 800	0,31	YAR 206-2LPW/ZM
35	72	42,9	19	46,1	25,4	1	21,6	15,3	0,655	3 200	0,45	YAR 207-2LPW/SS
	72	42,9	19	46,1	25,4	1	25,5	15,3	0,655	3 200	0,45	YAR 207-2LPW/ZM
40	80	49,2	21	51,8	30,2	1	24,7	19	0,8	2 800	0,61	YAR 208-2LPW/SS
	80	49,2	21	51,8	30,2	1	30,7	19	0,8	2 800	0,61	YAR 208-2LPW/ZM
50	90	51,6	22	62,5	32,6	1	29,6	23,2	0,98	2 200	0,77	YAR 210-2LPW/SS
	90	51,6	22	62,5	32,6	1	35,1	23,2	0,98	2 200	0,77	YAR 210-2LPW/ZM

1.13 Stainless steel and zinc-coated insert bearings, inch shafts

d $\frac{3}{4}$ – 1 $\frac{15}{16}$ in
19,05 – 49,213 mm

Principal dimensions							Basic load ratings		Fatigue load limit	Limiting speed with shaft tolerance h6	Mass	Designation
d	D	B	C	d ₁ =	s ₁	r _{1,2} min.	C	C ₀	P _u			
in/mm							lbf/kN		lbf/kN	r/min	lb/kg	–
$\frac{3}{4}$ 19,05	1.85	1.22	0.55	1.11	0.72	0.02	2 430	1 470	62.9	5 000	0.35	YAR 204-012-2LPW/SS
	47	31	14	28,2	18,3	0,6	10,8	6,55	0,28		0,16	
	1.85	1.22	0.55	1.11	0.72	0.02	2 860	1 470	62.9	5 000	0.35	YAR 204-012-2LPW/ZM
	47	31	14	28,2	18,3	0,6	12,7	6,55	0,28		0,16	
$\frac{15}{16}$ 23,813	2.05	1.34	0.59	1.33	0.78	0.02	3 150	1 750	75.3	4 300	0.46	YAR 205-015-2LPW/ZM
	52	34,1	15	33,74	19,8	0,6	14	7,8	0,335		0,21	
1 25,4	2.05	1.34	0.59	1.33	0.78	0.02	2 680	1 750	75.3	4 300	0.42	YAR 205-100-2LPW/SS
	52	34,1	15	33,74	19,8	0,6	11,9	7,8	0,335		0,19	
	2.05	1.34	0.59	1.33	0.78	0.02	3 150	1 750	75.3	4 300	0.42	YAR 205-100-2LPW/ZM
	52	34,1	15	33,74	19,8	0,6	14	7,8	0,335		0,19	
$1\frac{3}{16}$ 30,163	2.44	1.5	0.71	1.56	0.87	0.02	3 660	2 520	107	3 800	0.68	YAR 206-103-2LPW/SS
	62	38,1	18	39,7	22,2	0,6	16,3	11,2	0,475		0,31	
	2.44	1.5	0.71	1.56	0.87	0.02	4 380	2 520	107	3 800	0.68	YAR 206-103-2LPW/ZM
	62	38,1	18	39,7	22,2	0,6	19,5	11,2	0,475		0,31	
$1\frac{1}{4}$ 31,75	2.44	1.5	0.71	1.56	0.87	0.02	3 660	2 520	107	3 800	0.62	YAR 206-104-2LPW/SS
	62	38,1	18	39,7	22,2	0,6	16,3	11,2	0,475		0,28	
	2.44	1.5	0.71	1.56	0.87	0.02	4 380	2 520	107	3 800	0.64	YAR 206-104-2LPW/ZM
	62	38,1	18	39,7	22,2	0,6	19,5	11,2	0,475		0,29	
	2.83	1.69	0.75	1.81	1	0.04	4 860	3 440	147	3 200	1.1	YAR 207-104-2LPW/SS
	72	42,9	19	46,1	25,4	1	21,6	15,3	0,655		0,51	
	2.83	1.69	0.75	1.81	1	0.04	5 730	3 440	147	3 200	1.1	YAR 207-104-2LPW/ZM
	72	42,9	19	46,1	25,4	1	25,5	15,3	0,655		0,51	
$1\frac{3}{8}$ 34,925	2.83	1.69	0.75	1.81	1	0.04	4 860	3 440	147	3 200	0.99	YAR 207-106-2LPW/SS
	72	42,9	19	46,1	25,4	1	21,6	15,3	0,655		0,45	
	2.83	1.69	0.75	1.81	1	0.04	5 730	3 440	147	3 200	1	YAR 207-106-2LPW/ZM
	72	42,9	19	46,1	25,4	1	25,5	15,3	0,655		0,46	
$1\frac{7}{16}$ 36,513	2.83	1.69	0.75	1.81	1	0.04	4 860	3 440	147	3 200	0.93	YAR 207-107-2LPW/SS
	72	42,9	19	46,1	25,4	1	21,6	15,3	0,655		0,42	
	2.83	1.69	0.75	1.81	1	0.04	5 730	3 440	147	3 200	0.95	YAR 207-107-2LPW/ZM
	72	42,9	19	46,1	25,4	1	25,5	15,3	0,655		0,43	
$1\frac{1}{2}$ 38,1	3.15	1.94	0.83	2.04	1.19	0.04	5 550	4 270	180	2 800	1.45	YAR 208-108-2LPW/SS
	80	49,2	21	51,8	30,2	1	24,7	19	0,8		0,65	
	3.15	1.94	0.83	2.04	1.19	0.04	6 900	4 270	180	2 800	1.45	YAR 208-108-2LPW/ZM
	80	49,2	21	51,8	30,2	1	30,7	19	0,8		0,65	
$1\frac{15}{16}$ 49,213	3.54	2.03	0.87	2.46	1.28	0.04	6 650	5 220	220	2 200	1.75	YAR 210-115-2LPW/SS
	90	51,6	22	62,51	32,6	1	29,6	23,2	0,98		0,79	
	3.54	2.03	0.87	2.46	1.28	0.04	7 890	5 220	220	2 200	1.75	YAR 210-115-2LPW/ZM
	90	51,6	22	62,51	32,6	1	35,1	23,2	0,98		0,8	

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SKF Food Line equivalent list – metric shafts

d 20 – 50 mm

Oval flanged						
	Housing	Insert bearing	Shaft diameter [mm]			
			20	25	30	
SKF new	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	F2BC 20M-TPZM F2BC 20M-TPSS F2BSS 20M-TPSS	F2BC 25M-TPZM F2BC 25M-TPSS F2BSS 25M-TPSS	F2BC 30M-TPZM F2BC 30M-TPSS F2BSS 30M-TPSS	
SKF old	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	FYTWK 20 YTA FYTWK 20 YTH FYTWR 20 YTHR	FYTWK 25 YTA FYTWK 25 YTH FYTWR 25 YTHR	FYTWK 30 YTA FYTWK 30 YTH FYTWR 30 YTHR	
	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	MRC.C2F20ZM MRC.C2F20SS MRC.S2F20SS	MRC.C2F25ZM MRC.C2F25SS MRC.S2F25SS	MRC.C2F30ZM MRC.C2F30SS MRC.S2F30SS	
NTN	Composite Stainless steel	Stainless steel Stainless steel	F-UCFLR 204/LP03 F-UCFM204/LP03	F-UCFLR 205/LP03 F-UCFM205/LP03	F-UCFLR 206/LP03 F-UCFM206/LP03	
INA	Composite	Stainless Steel	RCJTY20-TV-VA	RCJTY25-TV-VA	RCJTY30-TV-VA	
NSK	Composite	Stainless steel	PSFT20CR	PSFT25CR	PSFT30CR	
ASHAI	Composite Stainless steel	Stainless steel Stainless steel	MUCD 204 MUCFL 204	MUCD 205 MUCFL 205	MUCD 206 MUCFL 206	
FYH	Composite Composite Stainless steel	Stainless steel Plated bearing Stainless steel	UCVFL204S6 UCVFL204ES7 UCSFL204H1S6	UCVFL205S6 UCVFL205ES7 UCSFL205H1S6	UCVFL206S6 UCVFL206ES7 UCSFL206H1S6	
DODGE	Composite Stainless steel	Stainless steel Stainless steel	F2B-SCEZ-20M-PCR F2B-SCEZ-20M-SHCR	F2B-SCEZ-25M-PCR F2B-SCEZ-25M-SHCR	F2B-SCEZ-30M-PCR F2B-SCEZ-30M-SHCR	
MARBETT	Composite	Steel bearing	UCFL 204 C	UCFL 205 C	UCFL 206 C	

Oval flanged					
	Housing	Insert bearing	Shaft diameter [mm]	40	50
			35		
SKF new	Composite	Zinc coated	F2BC 35M-TPZM	F2BC 40M-TPZM	F2BC 50M-TPZM
	Composite	Stainless steel	F2BC 35M-TPSS	F2BC 40M-TPSS	F2BC 50M-TPSS
	Stainless steel	Stainless steel	F2BSS 35M-TPSS	F2BSS 40M-TPSS	-
SKF old	Composite	Zinc coated	FYTWK 35 YTA	FYTWK 40 LTA	FYTWK 50 LTA
	Composite	Stainless steel	FYTWK 35 YTH	FYTWK 40 LTHR	FYTWK 50 LTHR
	Stainless steel	Stainless steel	FYTWR 35 YTHR	FYTWR 40 YTHR	-
	Composite	Zinc coated	MRC.C2F35ZM	MRC.C2F40ZM	MRC.C2F50ZM
	Composite	Stainless steel	MRC.C2F35SS	MRC.C2F40SS	MRC.C2F50SS
	Stainless steel	Stainless steel	MRC.S2F35SS	MRC.S2F40SS	-
NTN	Composite	Stainless steel	F-UCFLR 207/LP03	F-UCFLR 208/LP03	-
	Stainless steel	Stainless steel	F-UCFM207/LP03	F-UCFM208/LP03	F-UCFM210/LP03
INA	Composite	Stainless Steel	RCJTY35-TV-VA	RCJTY40-TV-VA	RCJTY50TV-VA
NSK	Composite	Stainless steel	PSFT35CR	PSFT40CR	-
ASHAI	Composite	Stainless steel	MUCD 207	MUCD 208	MUCD 210
	Stainless steel	Stainless steel	MUCFL 207	MUCFL 208	MUCFL 210
FYH	Composite	Stainless steel	UCVFL207S6	UCVFL208S6	-
	Composite	Plated bearing	UCVFL207ES7	UCVFL208ES7	-
	Stainless steel	Stainless steel	UCSFL207H1S6	UCSFL208H1S6	UCSFL210H1S6
DODGE	Composite	Stainless steel	F2B-SCEZ-35M-PCR	F2B-SCBEZ-40M-PCR	F2B-SCEZ-50M-PCR
	Stainless steel	Stainless steel	F2B-SCEZ-35M-SHCR	F2B-SCBEZ-40M-SHCR	F2B-SCEZ-50M-SHCR
MARBETT	Composite	Steel bearing	UCFL 207 C	UCFL 208 C	-

SKF Food Line equivalent list – inch shafts

d 3/4 – 1 1/4 in

Oval flanged					
	Housing	Insert bearing	Shaft diameter [in]	15/16	1
			3/4		
SKF new	Composite	Zinc coated	F2BC 012-TPZM	F2BC 015-TPZM	F2BC 100-TPZM
	Composite	Stainless steel	F2BC 012-TPSS	–	F2BC 100-TPSS
	Stainless steel	Stainless steel	F2BSS 012-TPSS	–	F2BSS 100-TPSS
SKF old	Composite	Zinc coated	FYTWK 3/4 YTA	FYTWK 15/16 YTA	FYTWK 1. YTA
	Composite	Stainless steel	FYTWK 3/4 YTH	–	FYTWK 1. YTH
	Stainless steel	Stainless steel	FYTWK 3/4 YTHR	–	FYTWK 1. YTHR
	Composite	Zinc coated	MRC.C2F012ZM	MRC.C2F015ZM	MRC.C2F100ZM
	Composite	Stainless steel	MRC.C2F012SS	–	MRC.C2F100SS
	Stainless steel	Stainless steel	MRC.S2F012SS	–	MRC.S2F100SS
NTN	Composite	Stainless steel	F-UCFLR 204-012/LP03	F-UCFLR 205-015/LP03	F-UCFLR 205-100/LP03
	Stainless steel	Stainless steel	F-UCFM 204-012/LP03	F-UCFM 205-015/LP03	F-UCFM 205-100/LP03
NSK	Composite	Stainless steel	PSFT3/4CR	–	PSFT1.CR
SEALMASTER	Composite	Phosphorous nickel-coated	CRFTC-PN12	–	CRFTC-PN16
	Composite	Stainless steel (CR-XTREME)	–	–	CRXFTC-16
	Composite	Zinc dichromate coated bearing	CF2S-Z212 NGF	–	CF2S-Z216 NGF
	Composite	Stainless steel (CRES CS)	CF2S-S212	–	CF2S-S216
	Stainless steel	Stainless steel (CR-XTREME)	–	–	CRXFTS-16
	Stainless steel	Black-oxide	SFT-12C CR	–	SFT-16C CR
	Stainless steel	Phosphorous nickel-coated	CRFTS-PN12	–	CRFTS-PN16
Stainless steel	Stainless steel (CRES SS)	SF2S-S212	–	SF2S-S216	
FYH	Composite	Stainless steel	UCVFL204-12S6	UCVFL205-15-S6	UCVFL205-16-S6
	Composite	Plated bearing	UCVFL204-12ES7	UCVFL205-15-ES7	UCVFL205-16-ES7
	Stainless steel	Stainless steel	UCSFL204-12H1S6	UCSFL205-15-H1S6	UCSFL205-16-H1S6
DODGE	Composite	Stainless steel	F2B-SCEZ-012-PCR	F2B-SCEZ-015-PCR	F2B-SCEZ-100-PCR
	Composite	Stainless steel	F2B-SCEZ-012-SHCR	F2B-SCEZ-015-SHCR	F2B-SCEZ-100-SHCR

Oval flanged					
	Housing	Insert bearing	Shaft diameter [in]	1 1/4	1 1/4
			1 3/16		
SKF new	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	F2BC 103-TPZM F2BC 103-TPSS F2BSS 103-TPSS	F4BC 104S-TPZM F2BC 104S-TPSS F2BSS 104S-TPSS	F2BC 104-TPZM F2BC 104-TPSS F2BSS 104-TPSS
SKF old	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	FYTWK 1.3/16 YTA FYTWK 1.3/16 YTH FYTWR 1.3/16 YTHR	FYTWK 1.1/4 AYTA FYTWK 1.1/4 AYTH FYTWR 1.1/4 AYTHR	FYTWK 1.1/4 YTA FYTWK 1.1/4 YTH FYTWR 1.1/4 YTHR
	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	MRC.C2F103ZM MRC.C2F103SS MRC.S2F103SS	MRC.C2F104ZMR MRC.C2F104SSR MRC.S2F104SSR	MRC.C2F104ZM MRC.C2F104SS MRC.S2F104SS
NTN	Composite Stainless steel	Stainless steel Stainless steel	F-UCFLR 206-103/LP03 F-UCFM 206-103/LP03	F-UCFLR 206-104/LP03 F-UCFM 206-104/LP03	F-UCFLR 207-104/LP03 F-UCFM 207-104/LP03
NSK	Composite	Stainless steel	PSFT1.3/16CR	PSFT1.1/4RCR	PSFT1.1/4CR
SEALMASTER	Composite Composite Composite Stainless steel Stainless steel Stainless steel Stainless steel	Phosphorous nickel-coated Stainless steel (CR-XTREME) Zinc dichromate coated bearing Stainless steel (CRES CS) Stainless steel (CR-XTREME) Black-oxide Phosphorous nickel-coated Stainless steel (CRES SS)	CRFTC-PN19 CRXFTC-19 CF2S-Z219 NGF CF2S-S219 CRXFTS-19 SFT-19C CR CRFTS-PN19 SF2S-S219	CRFTC-PN20 R CRXFTC-20R CF2S-Z220S NGF CF2S-S220S CRXFTS-20R SFT-20RC CR CRFTS-PN20 R SF2S-S220S	CRFTC-PN20 CRXFTC-20 CF2S-Z220 NGF CF2S-S220 CRXFTS-20 SFT-20C CR CRFTS-PN20 SF2S-S220
FYH	Composite Composite Stainless steel	Stainless steel Plated bearing Stainless steel	UCVFL206-19S6 UCVFL206-19ES7 UCSFL206-19H1S6	UCVFL206-20S6 UCVFL206-20ES7 UCSFL206-20H1S6	UCVFL207-20S6 UCVFL207-20ES7 UCSFL207-20H1S6
DODGE	Composite Composite Stainless steel	Stainless steel Stainless steel	F2B-SCEZ-103-PCR F2B-SCEZ-103-SHCR	F2B-SCEZ-104S-PCR F2B-SCEZ-104S-SHCR	F2B-SCEZ-104-PCR F2B-SCEZ-104-SHCR

SKF Food Line equivalent list – inch shafts

d 1 3/8 – 1 15/16 in

Oval flanged				
	Housing	Insert bearing	Shaft diameter [in] 1 3/8	1 7/16
SKF new	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	F2BC 106-TPZM F2BC 106-TPSS F2BSS 106-TPSS	F2BC 107-TPZM F2BC 107-TPSS F2BSS 107-TPSS
SKF old	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	FYTWK 1.3/8 YTA FYTWK 1.3/8 YTH FYTWR 1.3/8 YTHR	FYTWK 1.7/16 YTA FYTWK 1.7/16 YTH FYTWR 1.7/16 YTHR
	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	MRC.C2F106ZM MRC.C2F106SS MRC.S2F106SS	MRC.C2F107ZM MRC.C2F107SS MRC.S2F107SS
NTN	Composite Stainless steel	Stainless steel Stainless steel	F-UCFLR 207-106/LP03 F-UCFM 207-106/LP03	F-UCFLR 207-107/LP03 F-UCFM 207-107/LP03
NSK	Composite	Stainless steel	–	PSFT1.7/16CR
SEALMASTER	Composite Composite Composite Composite Stainless steel Stainless steel Stainless steel Stainless steel	Phosphorous nickel-coated Stainless steel (CR-XTREME) Zinc dichromate coated bearing Stainless steel (CRES CS) Stainless steel (CR-XTREME) Black-oxide Phosphorous nickel-coated Stainless steel (CRES SS)	– – – – – – – –	CRFTC-PN23 CRXFTC-23 CF2S-Z223 NGF CF2S-S223 CRXFTS-23 SFT-23C CR CRFTS-PN23 SF2S-S223
FYH	Composite Composite Stainless steel	Stainless steel Plated bearing Stainless steel	UCVFL207-22S6 UCVFL207-22ES7 UCSFL207-22H1S6	UCVFL207-23S6 UCVFL207-23ES7 UCSFL207-23H1S6
DODGE	Composite Composite Stainless steel	Stainless steel Stainless steel	F2B-SCEZ-106-PCR F2B-SCEZ-106-SHCR	F2B-SCEZ-107-PCR F2B-SCEZ-107-SHCR

Oval flanged				
	Housing	Insert bearing	Shaft diameter [in] 1 1/2	1 15/16
SKF new	Composite	Zinc coated	F2BC 108-TPZM	F2BC 115-TPZM
	Composite	Stainless steel	F2BC 108-TPSS	F2BC 115-TPSS
	Stainless steel	Stainless steel	F2BSS 108-TPSS	–
SKF old	Composite	Zinc coated	FYTWK 1.1/2 LTA	FYTWK 1.15/16 LTA
	Composite	Stainless steel	FYTWK 1.1/2 LTHR	FYTWK 1.15/16 LTHR
	Stainless steel	Stainless steel	FYTWR 1.1/2 YTHR	–
	Composite	Zinc coated	MRC.C2F108ZM	MRC.C2F115ZM
	Composite	Stainless steel	MRC.C2F108SS	MRC.C2F115SS
	Stainless steel	Stainless steel	MRC.S2F108SS	–
NTN	Composite	Stainless steel	F-UCFLR 208-108/LP03	–
	Stainless steel	Stainless steel	F-UCFM 208-108/LP03	F-UCFM 210-115/LP03
NSK	Composite	Stainless steel	PSFT1.1/2CR	–
SEALMASTER	Composite	Phosphorous nickel-coated	CRFTC-PN24	–
	Composite	Stainless steel (CR-XTREME)	CRXFTC-24	–
	Composite	Zinc dichromate coated bearing	CF2S-Z224 NGF	–
	Composite	Stainless steel (CRES CS)	CF2S-S224	–
	Stainless steel	Stainless steel (CR-XTREME)	CRXFTS-24	–
	Stainless steel	Black-oxide	SFT-24C CR	SFT-31C CR
	Stainless steel	Phosphorous nickel-coated	CRFTS-PN24	CRFTS-PN31
	Stainless steel	Stainless steel (CRES SS)	SF2S-S224	–
FYH	Composite	Stainless steel	UCVFL208-24S6	–
	Composite	Plated bearing	UCVFL208-24E57	–
	Stainless steel	Stainless steel	UCSFL208-24H1S6	UCSFL210-31H1S6
DODGE	Composite	Stainless steel	F2B-SCEZ-108-PCR	F2B-SCEZ-115-PCR
	Composite Stainless steel	Stainless steel	F2B-SCEZ-108-SHCR	F2B-SCEZ-115-SHCR

SKF Food Line equivalent list – metric shafts

d 20 – 50 mm

Square flanged					
	Housing	Insert bearing	Shaft diameter [mm]	25	30
			20		
SKF new	Composite	Zinc coated	F4BC 20M-TPZM	F4BC 25M-TPZM	F4BC 30M-TPZM
	Composite	Stainless steel	F4BC 20M-TPSS	F4BC 25M-TPSS	F4BC 30M-TPSS
	Stainless steel	Stainless steel	F4BSS 20M-TPSS	F4BSS 25M-TPSS	F4BSS 30M-TPSS
SKF old	Composite	Zinc coated	FYWK 20 YTA	FYWK 25 YTA	FYWK 30 YTA
	Composite	Stainless steel	FYWK 20 YTH	FYWK 25 YTH	FYWK 30 YTH
	Stainless steel	Stainless steel	FYWR 20 YTHR	FYWR 25 YTHR	FYWR 30 YTHR
	Composite	Zinc coated	MRC.C4F20ZM	MRC.C4F25ZM	MRC.C4F30ZM
	Composite	Stainless steel	MRC.C4F20SS	MRC.C4F25SS	MRC.C4F30SS
	Stainless steel	Stainless steel	MRC.S4F20SS	MRC.S4F25SS	MRC.S4F30SS
INA	Composite	Stainless Steel	RCJY20-TV-VA	RCJY25-TV-VA	RCJY30-TV-VA
NSK	Composite	Stainless steel	PSF20CR	PSF25CR	PSF30CR
ASHAI	Composite	Stainless steel	MUCB 204	MUCB 205	MUCB 206
	Stainless steel	Stainless steel	MUCF 204	MUCF 205	MUCF 206
FYH	Composite	Stainless steel	UCVF204S6	UCVF205S6	UCVF206S6
	Composite	Plated bearing	UCVF204ES7	UCVF205ES7	UCVF206ES7
	Stainless steel	Stainless steel	UCSF204H1S6	UCSF205H1S6	UCSF206H1S6
DODGE	Composite	Stainless steel	F4B-SCEZ-20M-PCR	F4B-SCEZ-25M-PCR	F4B-SCEZ-30M-PCR
	Stainless steel	Stainless steel	F4B-SCEZ-20M-SHCR	F4B-SCEZ-25M-SHCR	F4B-SCEZ-30M-SHCR
MARBETT	Composite	Steel bearing	–	UCF 205 C	UCF 206 C

Square flanged

	Housing	Insert bearing	Shaft diameter [mm]		
			35	40	50
SKF new	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	F4BC 35M-TPZM F4BC 35M-TPSS F4BSS 35M-TPSS	F4BC 40M-TPZM F4BC 40M-TPSS F4BSS 40M-TPSS	F4BC 50M-TPZM F4BC 50M-TPSS -
SKF old	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	FYWK 35 YTA FYWK 35 YTH FYWR 35 YTHR	FYWK 40 YTA FYWK 40 YTH FYWR 40 YTHR	FYWK 50 LTA FYWK 50 LTHR -
	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	MRC.C4F35ZM MRC.C4F35SS MRC.S4F35SS	MRC.C4F40ZM MRC.C4F40SS MRC.S4F40SS	MRC.C4F50ZM MRC.C4F50SS -
INA	Composite	Stainless Steel	RCJY35-TV-VA	RCJY40-TV-VA	RCJY50TV-VA
NSK	Composite	Stainless steel	PSF35CR	PSF40CR	-
ASHAI	Composite Stainless steel	Stainless steel Stainless steel	MUCB 207 MUCF 207	MUCB 208 MUCF 208	MUCB 210 MUCF 210
FYH	Composite Composite Stainless steel	Stainless steel Plated bearing Stainless steel	UCVF207S6 UCVF207ES7 UCSF207H1S6	UCVF208S6 UCVF208ES7 UCSF208H1S6	- - UCSF210H1S6
DODGE	Composite Stainless steel	Stainless steel Stainless steel	F4B-SCEZ-35M-PCR F4B-SCEZ-35M-SHCR	F4B-SCEZ-40M-PCR F4B-SCEZ-40M-SHCR	F4B-SCEZ-50M-PCR F4B-SCEZ-50M-SHCR
MARBETT	Composite	Steel bearing	UCF 207 C	UCF 208 C	UCF 210 C

SKF Food Line equivalent list – inch shafts

d 3/4 – 1 1/4 in

Square flanged					
	Housing	Insert bearing	Shaft diameter [in]	15/16	1
			3/4		
SKF new	Composite	Zinc coated	F4BC 012-TPZM	F4BC 015-TPZM	F4BC 100-TPZM
	Composite	Stainless steel	F4BC 012-TPSS	–	F4BC 100-TPSS
	Stainless steel	Stainless steel	F4BSS 012-TPSS	–	F4BSS 100-TPSS
SKF old	Composite	Zinc coated	FYWK 3/4 YTA	FYWK 15/16 YTA	FYWK 1. YTA
	Composite	Stainless steel	FYWK 3/4 YTH	–	FYWK 1. YTH
	Stainless steel	Stainless steel	FYWR 3/4 YTHR	–	FYWR 1. YTHR
	Composite	Zinc coated	MRC.C4F012ZM	MRC.C4F015ZM	MRC.C4F100ZM
	Composite	Stainless steel	MRC.C4F012SS	–	MRC.C4F100SS
	Stainless steel	Stainless steel	MRC.S4F012SS	–	MRC.S4F100SS
NSK	Composite	Stainless steel	PSF3/4CR	–	PSF1.CR
SEALMASTER	Composite	Phosphorous nickel-coated	CRFC-PN12	–	CRFC-PN16
	Composite	Stainless steel (CR-XTREME)	–	–	CRXFC-16
	Composite	Zinc dichromate coated bearing	CF4S-Z212 NGF	–	CF4S-Z216 NGF
	Composite	Stainless steel (CRES CS)	CF4S-S212	–	CF4S-S216
	Stainless steel	Stainless steel (CR-XTREME)	–	–	CRXFS-16
	Stainless steel	Black-oxide	SF-12C CR	–	SF-16C CR
	Stainless steel	Phosphorous nickel-coated	CRFS-PN12	–	CRFS-PN16
Stainless steel	Stainless steel (CRES SS)	SF4S-S212	–	SF4S-S216	
FYH	Composite	Stainless steel	UCVF204-12S6	UCVF205-15-S6	UCVF205-16-S6
	Composite	Plated bearing	UCVF204-12ES7	UCVF205-15-ES7	UCVF205-16-ES7
	Stainless steel	Stainless steel	UCSF204-12H1S6	UCSF205-15-H1S6	UCSF205-16-H1S6
DODGE	Composite	Stainless steel	F4B-SCEZ-012-PCR	F4B-SCEZ-015-PCR	F4B-SCEZ-100-PCR
	Stainless steel	Stainless steel	F4B-SCEZ-012-SHCR	F4B-SCEZ-015-SHCR	F4B-SCEZ-100-SHCR

Square flanged					
	Housing	Insert bearing	Shaft diameter [in]	1 1/4	1 1/4
SKF new	Composite	Zinc coated	F4BC 103-TPZM	F4BC 104S-TPZM	F4BC 104-TPZM
	Composite	Stainless steel	F4BC 103-TPSS	F4BC 104S-TPSS	F4BC 104-TPSS
	Stainless steel	Stainless steel	F4BSS 103-TPSS	F4BSS 104S-TPSS	F4BSS 104-TPSS
SKF old	Composite	Zinc coated	FYWK 1.3/16 YTA	FYWK 1.1/4 AYTA	FYWK 1.1/4 YTA
	Composite	Stainless steel	FYWK 1.3/16 YTH	FYWK 1.1/4 AYTH	FYWK 1.1/4 YTH
	Stainless steel	Stainless steel	FYWR 1.3/16 YTHR	-	FYWR 1.1/4 AYTHR
	Composite	Zinc coated	MRC.C4F103ZM	MRC.C4F104ZMR	MRC.C4F104ZM
	Composite	Stainless steel	MRC.C4F103SS	MRC.C4F104SSR	MRC.C4F104SS
	Stainless steel	Stainless steel	MRC.S4F103SS	-	MRC.S4F104SSR
NSK	Composite	Stainless steel	PSF1.3/16CR	PSF1.1/4RCR	PSF1.1/4CR
SEALMASTER	Composite	Phosphorous nickel-coated	CRFC-PN19	CRFC-PN20 R	CRFC-PN20
	Composite	Stainless steel (CR-XTREME)	CRXFC-19	CRXFC-20R	CRXFC-20
	Composite	Zinc dichromate coated bearing	CF4S-Z219 NGF	CF4S-Z220S NGF	CF4S-Z220 NGF
	Composite	Stainless steel (CRES CS)	CF4S-S219	CF4S-S220S	CF4S-S220
	Stainless steel	Stainless steel (CR-XTREME)	CRXFS-19	CRXFS-20R	CRXFS-20
	Stainless steel	Black-oxide	SF-19C CR	SF-20RC CR	SF-20C CR
	Stainless steel	Phosphorous nickel-coated	CRFS-PN19	CRFS-PN20 R	CRFS-PN20
Stainless steel	Stainless steel (CRES SS)	SF4S-S219	SF4S-S220S	SF4S-S220	
FYH	Composite	Stainless steel	UCVF206-19S6	UCVF206-20S6	UCVF207-20S6
	Composite	Plated bearing	UCVF206-19ES7	UCVF206-20ES7	UCVF207-20ES7
	Stainless steel	Stainless steel	UCSF206-19H1S6	UCSF206-20H1S6	UCSF207-20H1S6
DODGE	Composite	Stainless steel	F4B-SCEZ-103-PCR	F4B-SCEZ-104S-PCR	F4B-SCEZ-104-PCR
	Stainless steel	Stainless steel	F4B-SCEZ-103-SHCR	F4B-SCEZ-104S-SHCR	F4B-SCEZ-104-SHCR

SKF Food Line equivalent list – inch shafts

d 1 3/8 – 1 15/16 in

Square flanged				
	Housing	Insert bearing	Shaft diameter [in] 1 3/8	1 7/16
SKF new	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	F4BC 106-TPZM F4BC 106-TPSS F4BSS 106-TPSS	F4BC 107-TPZM F4BC 107-TPSS F4BSS 107-TPSS
SKF old	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	FYWK 1.3/8 YTA FYWK 1.3/8 YTH –	FYWK 1.7/16 YTA FYWK 1.7/16 YTH –
	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	MRC.C4F106ZM MRC.C4F106SS –	MRC.C4F107ZM MRC.C4F107SS –
NSK	Composite	Stainless steel	–	PSF1.7/16CR
SEALMASTER	Composite Composite Composite Composite Stainless steel Stainless steel Stainless steel Stainless steel	Phosphorous nickel-coated Stainless steel (CR-XTREME) Zinc dichromate coated bearing Stainless steel (CRES CS) Stainless steel (CR-XTREME) Black-oxide Phosphorous nickel-coated Stainless steel (CRES SS)	– – – – – – – –	CRFC-PN23 CRXFC-23 CF4S-Z223 NGF CF4S-S223 CRXFS-23 SF-23C CR CRFS-PN23 SF4S-S223
FYH	Composite Composite Stainless steel	Stainless steel Plated bearing Stainless steel	UCVF207-22S6 UCVF207-22ES7 UCSF207-22H1S6	UCVF207-23S6 UCVF207-23ES7 UCSF207-23H1S6
DODGE	Composite Stainless steel	Stainless steel Stainless steel	F4B-SCEZ-106-PCR F4B-SCEZ-106-SHCR	F4B-SCEZ-107-PCR F4B-SCEZ-107-SHCR

Square flanged				
	Housing	Insert bearing	Shaft diameter [in] 1 1/2	1 15/16
SKF new	Composite	Zinc coated	F4BC 108-TPZM	F4BC 115-TPZM
	Composite	Stainless steel	F4BC 108-TPSS	F4BC 115-TPSS
	Stainless steel	Stainless steel	F4BSS 108-TPSS	-
SKF old	Composite	Zinc coated	FYWK 1.1/2 YTA	FYWK 1.15/16 LTA
	Composite	Stainless steel	FYWK 1.1/2 YTH	FYWK 1.15/16 LTHR
	Stainless steel	Stainless steel	-	-
	Composite	Zinc coated	MRC.C4F108ZM	MRC.C4F115ZM
	Composite	Stainless steel	MRC.C4F108SS	MRC.C4F115SS
	Stainless steel	Stainless steel	-	-
NSK	Composite	Stainless steel	PSF1.1/2CR	-
SEALMASTER	Composite	Phosphorous nickel-coated	CRFC-PN24	-
	Composite	Stainless steel (CR-XTREME)	CRXFC-24	-
	Composite	Zinc dichromate coated bearing	CF4S-Z224 NGF	-
	Composite	Stainless steel (CRES CS)	CF4S-S224	-
	Stainless steel	Stainless steel (CR-XTREME)	CRXFS-24	-
	Stainless steel	Black-oxide	SF-24C CR	SF-31C CR
	Stainless steel	Phosphorous nickel-coated	CRFS-PN24	CRFS-PN31
Stainless steel	Stainless steel (CRES SS)	SF4S-S224	-	
FYH	Composite	Stainless steel	UCVF208-24S6	-
	Composite	Plated bearing	UCVF208-24ES7	-
	Stainless steel	Stainless steel	UCSF208-24H1S6	UCSF210-31H1S6
DODGE	Composite	Stainless steel	F4B-SCEZ-108-PCR	F4B-SCEZ-115-PCR
	Stainless steel	Stainless steel	F4B-SCEZ-108-SHCR	F4B-SCEZ-115-SHCR

SKF Food Line equivalent list – metric shafts

d 20 – 50 mm

Plummer block					
	Housing	Insert bearing	Shaft diameter [mm]	25	30
SKF new	Composite	Zinc coated	P2BC 20M-TPZM	P2BC 25M-TPZM	P2BC 30M-TPZM
	Composite	Stainless steel	P2BC 20M-TPSS	P2BC 25M-TPSS	P2BC 30M-TPSS
	Stainless steel	Stainless steel	P2BSS 20M-TPSS	P2BSS 25M-TPSS	P2BSS 30M-TPSS
SKF old	Composite	Zinc coated	SYWK 20 YTA	SYWK 25 YTA	SYWK 30 YTA
	Composite	Stainless steel	SYWK 20 YTH	SYWK 25 YTH	SYWK 30 YTH
	Stainless steel	Stainless steel	SYWR 20 YTHR	SYWR 25 YTHR	SYWR 30 YTHR
	Composite	Zinc coated	MRC.CPB20ZM	MRC.CPB25ZM	MRC.CPB30ZM
	Composite	Stainless steel	MRC.CPB20SS	MRC.CPB25SS	MRC.CPB30SS
	Stainless steel	Stainless steel	MRC.SPB20SS	MRC.SPB25SS	MRC.SPB30SS
NTN	Composite	Stainless steel	F-UCPR 204/LP03	F-UCPR 205/LP03	F-UCPR 206/LP03
	Stainless steel	Stainless steel	F-UCPM204/LP03	F-UCPM205/LP03	F-UCPM206/LP03
INA	Composite	Stainless steel	RASEY20-TV-VA	RASEY25-TV-VA	RASEY30-TV-VA
NSK	Composite	Stainless steel	PNP20CR	PNP25CR	PNP30CR
ASHAI	Composite	Stainless steel	MUCA 204	MUCA 205	MUCA 206
	Stainless steel	Stainless steel	MUCP 204	MUCP 205	MUCP 206
FYH	Composite	Stainless steel	UCVP204S6	UCVP205S6	UCVP206S6
	Composite	Plated bearing	UCVP204ES7	UCVP205ES7	UCVP206ES7
	Stainless steel	Stainless steel	UCSP204H1S6	UCSP205H1S6	UCSP206H1S6
DODGE	Composite	Stainless steel	P2B-SCEZ-20M-PCR	P2B-SCEZ-25M-PCR	P2B-SCUEZ-30M-PCR
	Stainless steel	Stainless steel	P2B-SCEZ-20M-SHCR	P2B-SCEZ-25M-SHCR	P2B-SCEZ-30M-SHCR

Plummer block					
	Housing	Insert bearing	Shaft diameter [mm]	40	50
			35		
SKF new	Composite	Zinc coated	P2BC 35M-TPZM	P2BC 40M-TPZM	P2BC 50M-TPZM
	Composite	Stainless steel	P2BC 35M-TPSS	P2BC 40M-TPSS	P2BC 50M-TPSS
	Stainless steel	Stainless steel	P2BSS 35M-TPSS	P2BSS 40M-TPSS	-
SKF old	Composite	Zinc coated	SYWK 35 YTA	SYWK 40 YTA	SYWK 50 LTA
	Composite	Stainless steel	SYWK 35 YTH	SYWK 40 YTH	SYWK 50 LTHR
	Stainless steel	Stainless steel	SYWR 35 YTHR	SYWR 40 YTHR	-
	Composite	Zinc coated	MRC.CPB35ZM	MRC.CPB40ZM	MRC.CPB50ZM
	Composite	Stainless steel	MRC.CPB35SS	MRC.CPB40SS	MRC.CPB50SS
	Stainless steel	Stainless steel	MRC.SPB35SS	MRC.SPB40SS	-
NTN	Composite	Stainless steel	F-UCPR 207/LP03	F-UCPR 208/LP03	-
	Stainless steel	Stainless steel	F-UCPM207/LP03	F-UCPM208/LP03	F-UCPM210/LP03
INA	Composite	Stainless steel	RASEY35-TV-VA	RASEY40-TV-VA	RASEY50TV-VA
NSK	Composite	Stainless steel	PNP35CR	PNP40CR	-
ASHAI	Composite	Stainless steel	MUCA 207	MUCA 208	MUCA 210
	Stainless steel	Stainless steel	MUCP 207	MUCP 208	MUCP 210
FYH	Composite	Stainless steel	UCVP207S6	UCVP208S6	UCVP210S6
	Composite	Plated bearing	UCVP207ES7	UCVP208ES7	UCVP210ES7
	Stainless steel	Stainless steel	UCSP207H1S6	UCSP208H1S6	UCSP210H1S6
DODGE	Composite	Stainless steel	P2B-SCEZ-35M-PCR	P2B-SCBEZ-40M-PCR	P2B-SCEZ-50M-PCR
	Stainless steel	Stainless steel	P2B-SCEZ-35M-SHCR	P2B-SCBEZ-40M-SHCR	P2B-SCEZ-50M-SHCR

SKF Food Line equivalent list – inch shafts

d 3/4 – 1 1/4 in

Plummer block					
	Housing	Insert bearing	Shaft diameter [in]	15/16	1
SKF new	Composite	Zinc coated	P2BC 012-TPZM	P2BC 015-TPZM	P2BC 100-TPZM
	Composite	Stainless steel	P2BC 012-TPSS	–	P2BC 100-TPSS
	Stainless steel	Stainless steel	P2BSS 012-TPSS	–	P2BSS 100-TPSS
SKF old	Composite	Zinc coated	SYWK 3/4 YTA	SYWK 15/16 YTA	SYWK 1. YTA
	Composite	Stainless steel	SYWK 3/4 YTH	–	SYWK 1. YTH
	Stainless steel	Stainless steel	SYWR 3/4 YTHR	–	SYWR 1. YTHR
	Composite	Zinc coated	MRC.CPB012ZM	MRC.CPB015ZM	MRC.CPB100ZM
	Composite	Stainless steel	MRC.CPB012SS	–	MRC.CPB100SS
	Stainless steel	Stainless steel	MRC.SPB012SS	–	MRC.SPB100SS
NTN	Composite	Stainless steel	F-UCPR 204-012/LP03	F-UCPR 205-015/LP03	F-UCPR 205-100/LP03
	Stainless steel	Stainless steel	F-UCPM 204-012/LP03	F-UCPM 205-015/LP03	F-UCPM 205-100/LP03
NSK	Composite	Stainless steel	PNP3/4CR	–	PNP1.CR
SEALMASTER	Composite	Phosphorous nickel-coated	CRPC-PN12	–	CRPC-PN16
	Composite	Stainless steel (CR-XTREME)	–	–	CRXPC-16
	Composite	Zinc dichromate coated bearing	CPS-Z212 NGF	–	CPS-Z216 NGF
	Composite	Stainless steel (CRES CS)	CPS-S212	–	CPS-S216
	Stainless steel	Stainless steel (CR-XTREME)	–	–	CRXPS-16
	Stainless steel	Black-oxide	NP-12C CR	–	NP-16C CR
	Stainless steel	Phosphorous nickel-coated	CRPS-PN12	–	CRPS-PN16
Stainless steel	Stainless steel (CRES SS)	SPS-S212	–	SPS-S216	
FYH	Composite	Stainless steel	UCVP204-12S6	UCVP205-15-S6	UCVP205-16-S6
	Composite	Plated bearing	UCVP204-12ES7	UCVP205-15-ES7	UCVP205-16-ES7
	Stainless steel	Stainless steel	UCSP204-12H1S6	UCSP205-15-H1S6	UCSP205-16-H1S6
DODGE	Composite	Stainless steel	P2B-SCEZ-012-PCR	P2B-SCEZ-015-PCR	P2B-SCEZ-100-PCR
	Stainless steel	Stainless steel	P2B-SCEZ-012-SHCR	P2B-SCEZ-015-SHCR	P2B-SCEZ-100-SHCR

Plummer block					
	Housing	Insert bearing	Shaft diameter [in]	1 1/4	1 1/4
			1 3/16		
SKF new	Composite	Zinc coated	P2BC 103-TPZM	P2BC 104S-TPZM	P2BC 104-TPZM
	Composite	Stainless steel	P2BC 103-TPSS	P2BC 104S-TPSS	P2BC 104-TPSS
	Stainless steel	Stainless steel	P2BSS 103-TPSS	P2BSS 104S-TPSS	P2BSS 104-TPSS
SKF old	Composite	Zinc coated	SYWK 1.3/16 YTA	SYWK 1.1/4 AYTA	SYWK 1.1/4 YTA
	Composite	Stainless steel	SYWK 1.3/16 YTH	SYWK 1.1/4 AYTH	SYWK 1.1/4 YTH
	Stainless steel	Stainless steel	SYWR 1.3/16 YTHR	SYWR 1.1/4 AYTHR	SYWR 1.1/4 YTHR
	Composite	Zinc coated	MRC.CPB103ZM	MRC.CPB104ZMR	MRC.CPB104ZM
	Composite	Stainless steel	MRC.CPB103SS	MRC.CPB104SSR	MRC.CPB104SS
	Stainless steel	Stainless steel	MRC.SPB103SS	MRC.SPB104SSR	MRC.SPB104SS
NTN	Composite	Stainless steel	F-UCPR 206-103/LP03	F-UCPR 206-104/LP03	F-UCPR 207-104/LP03
	Stainless steel	Stainless steel	F-UCPM 206-103/LP03	F-UCPM 206-104/LP03	F-UCPM 207-104/LP03
NSK	Composite	Stainless steel	PNP1.3/16CR	PNP1.1/4RCR	PNP1.1/4 CR
SEALMASTER	Composite	Phosphorous nickel-coated	CRPC-PN19	CRPC-PN20 R	CRPC-PN20
	Composite	Stainless steel (CR-XTREME)	CRXPC-19	CRXPC-20R	CRXPC-20
	Composite	Zinc dichromate coated bearing	CPS-Z219 NGF	CPS-Z220S NGF	CPS-Z220 NGF
	Composite	Stainless steel (CRES CS)	CPS-S219	CPS-S220S	CPS-S220
	Stainless steel	Stainless steel (CR-XTREME)	CRXPS-19	CRXPS-20R	CRXPS-20
	Stainless steel	Black-oxide	NP-19C CR	NP-20RC CR	NP-20C CR
	Stainless steel	Phosphorous nickel-coated	CRPS-PN19	CRPS-PN20 R	CRPS-PN20
	Stainless steel	Stainless steel (CRES SS)	SPS-S219	SPS-S220S	SPS-S220
FYH	Composite	Stainless steel	UCVP206-19S6	UCVP206-20S6	UCVP207-20S6
	Composite	Plated bearing	UCVP206-19E57	UCVP206-20E57	UCVP207-20E57
	Stainless steel	Stainless steel	UCSP206-19H1S6	UCSP206-20H1S6	UCSP207-20H1S6
DODGE	Composite	Stainless steel	P2B-SCUEZ-103-PCR	P2B-SCUEZ-104S-PCR	P2B-SCEZ-104-PCR
	Stainless steel	Stainless steel	P2B-SCEZ-103-SHCR	P2B-SCUEZ-104S-SHCR	P2B-SCEZ-104-SHCR

SKF Food Line equivalent list – inch shafts

d 1 3/8 – 1 15/16 in

Plummer block				
	Housing	Insert bearing	Shaft diameter [in] 1 3/8	1 7/16
SKF new	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	P2BC 106-TPZM P2BC 106-TPSS P2BSS 106-TPSS	P2BC 107-TPZM P2BC 107-TPSS P2BSS 107-TPSS
SKF old	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	SYWK 1.3/8 YTA SYWK 1.3/8 YTH SYWR 1.3/8 YTHR	SYWK 1.7/16 YTA SYWK 1.7/16 YTH SYWR 1.7/16 YTHR
	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	MRC.CPB106ZM MRC.CPB106SS MRC.SPB106SS	MRC.CPB107ZM MRC.CPB107SS MRC.SPB107SS
NTN	Composite Stainless steel	Stainless steel Stainless steel	F-UCPR 207-106/LP03 F-UCPM 207-106/LP03	F-UCPR 207-107/LP03 F-UCPM 207-107/LP03
NSK	Composite	Stainless steel	–	PNP1.7/16CR
SEALMASTER	Composite Composite Composite Composite Stainless steel Stainless steel Stainless steel Stainless steel	Phosphorous nickel-coated Stainless steel (CR-XTREME) Zinc dichromate coated bearing Stainless steel (CRES CS) Stainless steel (CR-XTREME) Black-oxide Phosphorous nickel-coated Stainless steel (CRES SS)	– – – – – – – –	CRPC-PN23 CRXPC-23 CPS-Z223 NGF CPS-S223 CRXPS-23 NP-23C CR CRPS-PN23 SPS-S223
FYH	Composite Composite Stainless steel	Stainless steel Plated bearing Stainless steel	UCVP207-22S6 UCVP207-22ES7 UCSP207-22H1S6	UCVP207-23S6 UCVP207-23ES7 UCSP207-23H1S6
DODGE	Composite Stainless steel	Stainless steel Stainless steel	P2B-SCEZ-106-PCR P2B-SCEZ-106-SHCR	P2B-SCEZ-107-PCR P2B-SCEZ-107-SHCR

Plummer block				
	Housing	Insert bearing	Shaft diameter [in] 1 1/2	1 15/16
SKF new	Composite	Zinc coated	P2BC 108-TPZM	P2BC 115-TPZM
	Composite	Stainless steel	P2BC 108-TPSS	P2BC 115-TPSS
	Stainless steel	Stainless steel	P2BSS 108-TPSS	–
SKF old	Composite	Zinc coated	SYWK 1.1/2 YTA	SYWK 1.15/16 LTA
	Composite	Stainless steel	SYWK 1.1/2 YTH	SYWK 1.15/16 LTHR
	Stainless steel	Stainless steel	SYWR 1.1/2 YTHR	–
	Composite	Zinc coated	MRC.CPB108ZM	MRC.CPB115ZM
	Composite	Stainless steel	MRC.CPB108SS	MRC.CPB115SS
	Stainless steel	Stainless steel	MRC.SPB108SS	–
NTN	Composite	Stainless steel	F-UCPR 208-108/LP03	–
	Stainless steel	Stainless steel	F-UCPM 208-108/LP03	F-UCPM 210-115/LP03
NSK	Composite	Stainless steel	PNP1.1/2CR	–
SEALMASTER	Composite	Phosphorous nickel-coated	CRPC-PN24	–
	Composite	Stainless steel (CR-XTREME)	CRXPC-24	–
	Composite	Zinc dichromate coated bearing	CPS-Z224 NGF	–
	Composite	Stainless steel (CRES CS)	CPS-S224	–
	Stainless steel	Stainless steel (CR-XTREME)	CRXPS-24	–
	Stainless steel	Black-oxide	NP-24C CR	NP-31C CR
	Stainless steel	Phosphorous nickel-coated	CRPS-PN24	CRPS-PN31
	Stainless steel	Stainless steel (CRES SS)	SPS-S224	–
FYH	Composite	Stainless steel	UCVP208-24S6	UCVP210-31S6
	Composite	Plated bearing	UCVP208-24E7	UCVP210-31E7
	Stainless steel	Stainless steel	UCSP208-24H1S6	UCSP210-31H1S6
DODGE	Composite	Stainless steel	P2B-SCBEZ-108-PCR	P2B-SCEZ-115-PCR
	Stainless steel	Stainless steel	P2B-SCEZ-108-SHCR	P2B-SCEZ-115-SHCR P2B-SCEZ-107-PCR P2B-SCEZ-107-SHCR

SKF Food Line equivalent list – metric shafts

d 20 – 50 mm

3-bolt flanged					
	Housing	Insert bearing	Shaft diameter [mm]	25	30
			20		
SKF new	Composite	Zinc coated	F3BBC 20M-TPZM	F3BBC 25M-TPZM	F3BBC 30M-TPZM
	Composite	Stainless steel	F3BBC 20M-TPSS	F3BBC 25M-TPSS	F3BBC 30M-TPSS
	Stainless steel	Stainless steel	–	–	–
SKF old	Composite	Zinc coated	FYAWK 20 LTA	FYAWK 25 LTA	FYAWK 30 LTA
	Composite	Stainless steel	FYAWK 20 LTHR	FYAWK 25 LTHR	FYAWK 30 LTHR
	Stainless steel	Stainless steel	–	–	–
	Composite	Zinc coated	MRC.CBF20ZM	MRC.CBF25ZM	MRC.CBF30ZM
	Composite	Stainless steel	MRC.CBF20SS	MRC.CBF25SS	MRC.CBF30SS
	Stainless steel	Stainless steel	–	–	–
DODGE	Composite	Stainless steel	FB-SCEZ-20M-PCR	FB-SCEZ-25M-PCR	FB-SCEZ-30M-PCR

3-bolt flanged					
	Housing	Insert bearing	Shaft diameter [mm]	40	50
SKF new	Composite	Zinc coated	F3BBC 35M-TPZM	F3BBC 40M-TPZM	F3BBC 50M-TPZM
	Composite	Stainless steel	F3BBC 35M-TPSS	P2BTC 40M-TPSS	P2BTC 50M-TPSS
	Stainless steel	Stainless steel	-	-	-
SKF old	Composite	Zinc coated	FYAWK 35 LTA	FYAWK 40 LTA	FYAWK 50 LTA
	Composite	Stainless steel	FYAWK 35 LTHR	FYAWK 40 LTHR	FYAWK 50 LTHR
	Stainless steel	Stainless steel	-	-	-
	Composite	Zinc coated	MRC.CBF35ZM	MRC.CBF40ZM	MRC.CBF50ZM
	Composite	Stainless steel	MRC.CBF35SS	MRC.CBF40SS	MRC.CBF50SS
	Stainless steel	Stainless steel	-	-	-
DODGE	Composite	Stainless steel	FB-SCEZ-35M-PCR	-	-

SKF Food Line equivalent list – inch shafts

d 3/4 – 1 1/4 in

3-bolt flanged					
	Housing	Insert bearing	Shaft diameter [in]		
			3/4	15/16	1
SKF new	Composite	Zinc coated	F3BBC 012-TPZM	F3BBC 015-TPZM	F3BBC 100-TPZM
	Composite	Stainless steel	F3BBC 012-TPSS	–	F3BBC 100-TPSS
	Stainless steel	Stainless steel	–	–	–
SKF old	Composite	Zinc coated	FYAWK 3/4 LTA	FYAWK 15/16 LTA	FYAWK 1. LTA
	Composite	Stainless steel	FYAWK 3/4 LTHR	–	FYAWK 1. LTHR
	Stainless steel	Stainless steel	–	–	–
	Composite	Zinc coated	MRC.CBF012ZM	MRC.CBF015ZM	MRC.CBF100ZM
	Composite	Stainless steel	MRC.CBF012SS	–	MRC.CBF100SS
	Stainless steel	Stainless steel	–	–	–
SEALMASTER	Stainless steel	Stainless steel (CR-XTREME)	–	–	CRXFBS-16
	Stainless steel	Black-oxide	FB-12C CR	–	FB-16C CR
	Stainless steel	Phosphorous nickel-coated	CRFBS-PN12	–	CRFBS-PN16
DODGE	Composite	Stainless steel	FB-SCEZ-012-PCR	FB-SCEZ-015-PCR	FB-SCEZ-100-PCR

SKF Food Line equivalent list – inch shafts

d 1 3/8 – 1 15/16 in

3-bolt flanged					
	Housing	Insert bearing	Shaft diameter [in]		
			1 3/8	1 7/16	
SKF new	Composite	Zinc coated	F3BBC 106-TPZM	F3BBC 107-TPZM	
	Composite	Stainless steel	F3BBC 107-TPSS	F3BBC 107-TPSS	
	Stainless steel	Stainless steel	–	–	
SKF old	Composite	Zinc coated	FYAWK 1.3/8 LTA	FYAWK 1.7/16 LTA	
	Composite	Stainless steel	FYAWK 1.3/8 LTHR	FYAWK 1.7/16 LTHR	
	Stainless steel	Stainless steel	–	–	
	Composite	Zinc coated	MRC.CBF106ZM	MRC.CBF107ZM	
	Composite	Stainless steel	MRC.CBF106SS	MRC.CBF107SS	
	Stainless steel	Stainless steel	–	–	
SEALMASTER	Stainless steel	Stainless steel (CR-XTREME)	–	–	CRXFBS-23
	Stainless steel	Black-oxide	–	–	FB-23C CR
	Stainless steel	Phosphorous nickel-coated	–	–	CRFBS-PN23
DODGE	Composite	Stainless steel	FB-SCEZ-106-PCR	FB-SCEZ-107-PCR	

3-bolt flanged					
	Housing	Insert bearing	Shaft diameter [in]	1 1/4	1 1/4
SKF new	Composite	Zinc coated	F3BBC 103-TPZM	F3BBC 104S-TPZM	F3BBC 104-TPZM
	Composite	Stainless steel	F3BBC 103-TPSS	F3BBC 104S-TPSS	F3BBC 104-TPSS
	Stainless steel	Stainless steel	-	-	-
SKF old	Composite	Zinc coated	FYAWK 1.3/16 LTA	FYAWK 1.1/4 ALTA	FYAWK 1.1/4 LTA
	Composite	Stainless steel	FYAWK 1.3/16 LTHR	FYAWK 1.1/4 ALTHR	FYAWK 1.1/4 LTHR
	Stainless steel	Stainless steel	-	-	-
	Composite	Zinc coated	MRC.CBF103ZM	MRC.CBF104ZMR	MRC.CBF104ZM
	Composite	Stainless steel	MRC.CBF103SS	MRC.CBF104SSR	MRC.CBF104SS
	Stainless steel	Stainless steel	-	-	-
SEALMASTER	Stainless steel	Stainless steel (CR-XTREME)	CRXFBS-19	CRXFBS-20 R	CRXFBS-20
	Stainless steel	Black-oxide	FB-19C CR	FB-20RC CR	FB-20C CR
	Stainless steel	Phosphorous nickel-coated	CRFBS-PN19	CRFBS-PN20 R	CRFBS-PN20
DODGE	Composite	Stainless steel	FB-SCEZ-103-PCR	FB-SCEZ-104S-PCR	FB-SCEZ-104-PCR

3-bolt flanged					
	Housing	Insert bearing	Shaft diameter [in]	1 1/2	1 15/16
SKF new	Composite	Zinc coated	F3BBC 108-TPZM	F3BBC 015-TPZM	F3BBC 015-TPZM
	Composite	Stainless steel	F3BBC 108-TPSS	F3BBC 115-TPSS	F3BBC 115-TPSS
	Stainless steel	Stainless steel	-	-	-
SKF old	Composite	Zinc coated	FYAWK 1.1/2 LTA	FYAWK 1.15/16 LTA	FYAWK 1.15/16 LTA
	Composite	Stainless steel	FYAWK 1.1/2 LTHR	FYAWK 1.15/16 LTHR	FYAWK 1.15/16 LTHR
	Stainless steel	Stainless steel	-	-	-
	Composite	Zinc coated	MRC.CBF108ZM	MRC.CBF115ZM	MRC.CBF115ZM
	Composite	Stainless steel	MRC.CBF108SS	MRC.CBF115SS	MRC.CBF115SS
	Stainless steel	Stainless steel	-	-	-
SEALMASTER	Stainless steel	Stainless steel (CR-XTREME)	-	-	-
	Stainless steel	Black-oxide	-	-	-
	Stainless steel	Phosphorous nickel-coated	-	-	-
DODGE	Composite	Stainless steel	-	-	-

D Equivalent list

SKF Food Line equivalent list – metric shafts

d 20 – 50 mm

Short base plummer block					
	Housing	Insert bearing	Shaft diameter [mm]		
			20	25	30
SKF new	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	P2BTC 20M-TPZM P2BTC 20M-TPSS P2BTSS 20M-TPSS	P2BTC 25M-TPZM P2BTC 25M-TPSS P2BTSS 25M-TPSS	P2BTC 30M-TPZM P2BTC 30M-TPSS P2BTSS 30M-TPSS
SKF old	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	SYFWK 20 LTA SYFWK 20 LTHR SYFWR 20 YTHR	SYFWK 25 LTA SYFWK 25 LTHR SYFWR 25 YTHR	SYFWK 30 LTA SYFWK 30 LTHR SYFWR 30 YTHR
	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	MRC.CTB20ZM MRC.CTB20SS MRC.STB20SS	MRC.CTB25ZM MRC.CTB25SS MRC.STB25SS	MRC.CTB30ZM MRC.CTB30SS MRC.STB30SS
INA	Composite	Stainless steel	RSHEY20-TV-VA	RSHEY25-TV-VA	RSHEY30-TV-VA
ASHAI	Stainless steel	Stainless steel	MUCPA 204	MUCPA 205	MUCPA 206
FYH	Stainless steel	Stainless steel	UCSPA204H1S6	UCSPA205H1S6	UCSPA206H1S6
DODGE	Composite	Stainless steel	TB-SCEZ-20M-PCR	TB-SCEZ-25M-PCR	TB-SCEZ-30M-PCR

Short base plummer block					
	Housing	Insert bearing	Shaft diameter [mm]	40	50
			35		
SKF new	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	P2BTC 35M-TPZM P2BTC 35M-TPSS P2BTSS 35M-TPSS	P2BTC 40M-TPZM P2BTC 40M-TPSS P2BTSS 40M-TPSS	P2BTC 50M-TPZM P2BTC 50M-TPSS –
SKF old	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	SYFWK 35 LTA SYFWK 35 LTHR SYFWR 35 YTHR	SYFWK 40 LTA SYFWK 40 LTHR SYFWR 40 YTHR	SYFWK 50 LTA SYFWK 50 LTHR –
	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	MRC.CTB35ZM MRC.CTB35SS MRC.STB35SS	MRC.CTB40ZM MRC.CTB40SS MRC.STB40SS	MRC.CTB50ZM MRC.CTB50SS –
INA	Composite	Stainless steel	RSHEY35-TV-VA	RSHEY40-TV-VA	RSHEY50-TV-VA
ASHAI	Stainless steel	Stainless steel	MUCPA 207	MUCPA 208	MUCPA 210
FYH	Stainless steel	Stainless steel	UCSPA207H1S6	UCSPA208H1S6	–
DODGE	Composite	Stainless steel	TB-SCEZ-35M-PCR	TB-SCEZ-40M-PCR	TB-SCEZ-50M-PCR

SKF Food Line equivalent list – inch shafts

d 3/4 – 1 1/4 in

Short base plummer block					
	Housing	Insert bearing	Shaft diameter [in] 3/4	15/16	1
SKF new	Composite	Zinc coated	P2BTC 012-TPZM	P2BTC 015-TPZM	P2BTC 100-TPZM
	Composite	Stainless steel	P2BTC 012-TPSS	–	P2BTC 100-TPSS
	Stainless steel	Stainless steel	P2BTSS 012-TPSS	–	P2BTSS 100-TPSS
SKF old	Composite	Zinc coated	SYFWK 3/4 LTA	SYFWK 15/16 LTA	SYFWK 1. LTA
	Composite	Stainless steel	SYFWK 3/4 LTHR	–	SYFWK 1. LTHR
	Stainless steel	Stainless steel	SYFWR 3/4 YZTHR	–	SYFWR 1. YZTHR
	Composite	Zinc coated	MRC.CTB012ZM	MRC.CTB015ZM	MRC.CTB100ZM
	Composite	Stainless steel	MRC.CTB012SS	–	MRC.CTB100SS
	Stainless steel	Stainless steel	MRC.STB012SS	–	MRC.STB100SS
SEALMASTER	Composite	Phosphorous nickel-coated	CRTBC-PN12	–	CRTBC-PN16
	Composite	Stainless steel (CR-XTREME)	–	–	CRXTBC-16
	Composite	Zinc dichromate coated bearing	CTBS-Z212 NGF	–	CTBS-Z216 NGF
	Composite	Stainless steel (CRES CS)	CTBS-S212	–	CTBS-S216
	Stainless steel	Stainless steel (CRES CS)	STBS-S212	–	STBS-S216
FYH	Stainless steel	Stainless steel	UCSPA204-12H1S6	UCSPA205-15-H1S6	UCSPA205-16-H1S6
DODGE	Composite	Stainless steel	TB-SCEZ-012-PCR	TB-SCEZ-015-PCR	TB-SCEZ-100-PCR

SKF Food Line equivalent list – inch shafts

d 1 3/8 – 1 15/16 in

Short base plummer block					
	Housing	Insert bearing	Shaft diameter [in] 1 3/8	1 7/16	
SKF new	Composite	Zinc coated	P2BTC 106-TPZM	P2BTC 107-TPZM	
	Composite	Stainless steel	P2BTC 106-TPSS	P2BTC 107-TPSS	
	Stainless steel	Stainless steel	P2BTSS 106-TPSS	P2BTSS 107-TPSS	
SKF old	Composite	Zinc coated	SYFWK 1.3/8 LTA	SYFWK 1.7/16 LTA	
	Composite	Stainless steel	SYFWK 1.3/8 LTHR	SYFWK 1.7/16 LTHR	
	Stainless steel	Stainless steel	SYFWR 1.3/8 YZTHR	SYFWR 1.7/16 YZTHR	
	Composite	Zinc coated	MRC.CTB106ZM	MRC.CTB107ZM	
	Composite	Stainless steel	MRC.CTB106SS	MRC.CTB107SS	
	Stainless steel	Stainless steel	MRC.STB106SS	MRC.STB107SS	
SEALMASTER	Composite	Phosphorous nickel-coated	–	–	CRTBC-PN23
	Composite	Stainless steel (CR-XTREME)	–	–	CRXTBC-23
	Composite	Zinc dichromate coated bearing	–	–	CTBS-Z223 NGF
	Composite	Stainless steel (CRES CS)	–	–	CTBS-S223
	Stainless steel	Stainless steel (CRES CS)	–	–	STBS-S223
FYH	Stainless steel	Stainless steel	UCSPA207-22H1S6	UCSPA207-23H1S6	
DODGE	Composite	Stainless steel	TB-SCEZ-106-PCR	TB-SCEZ-107-PCR	

Short base plummer block					
	Housing	Insert bearing	Shaft diameter [in]	1 1/4	1 1/4
SKF new	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	P2BTC 103-TPZM P2BTC 103-TPSS P2BTSS 103-TPSS	P2BTC 104S-TPZM P2BTC 104S-TPSS P2BTSS 104S-TPSS	P2BTC 104-TPZM P2BTC 104-TPSS P2BTSS 104-TPSS
SKF old	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	SYFWK 1.3/16 LTA SYFWK 1.3/16 LTHR SYFWR 1.3/16 YZTHR	SYFWK 1.1/4 ALTA SYFWK 1.1/4 ALTHR SYFWR 1.1/4 AYZTHR	SYFWK 1.1/4 LTA SYFWK 1.1/4 LTHR SYFWR 1.1/4 YZTHR
	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	MRC.CTB103ZM MRC.CTB103SS MRC.STB103SS	MRC.CTB104ZMR MRC.CTB104SSR MRC.STB104SSR	MRC.CTB104ZM MRC.CTB104SS MRC.STB104SS
SEALMASTER	Composite Composite Composite Composite Stainless steel	Phosphorous nickel-coated Stainless steel (CR-XTREME) Zinc dichromate coated bearing Stainless steel (CRES CS) Stainless steel (CRES CS)	CRTBC-PN19 CRXTBC-19 CTBS-Z219 NGF CTBS-S219 STBS-S219	CRTBC-PN20 R CRXTBC-20R CTBS-Z220S NGF CTBS-S220S STBS-S220S	CRTBC-PN20 CRXTBC-20 CTBS-Z220 NGF CTBS-S220 STBS-S220
FYH	Stainless steel	Stainless steel	UCSPA206-19H1S6	UCSPA206-20H1S6	UCSPA207-20H1S6
DODGE	Composite	Stainless steel	TB-SCEZ-103-PCR	TB-SCEZ-104S-PCR	TB-SCEZ-104-PCR

Short base plummer block					
	Housing	Insert bearing	Shaft diameter [in]	1 1/2	1 15/16
SKF new	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	P2BTC 108-TPZM P2BTC 108-TPSS P2BTSS 108-TPSS	P2BTC 115-TPZM P2BTC 115-TPSS -	P2BTC 115-TPZM P2BTC 115-TPSS -
SKF old	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	SYFWK 1.1/2 LTA SYFWK 1.1/2 LTHR SYFWR 1.1/2 YZTHR	SYFWK 1.15/16 LTA SYFWK 1.15/16 LTHR -	SYFWK 1.15/16 LTA SYFWK 1.15/16 LTHR -
	Composite Composite Stainless steel	Zinc coated Stainless steel Stainless steel	MRC.CTB108ZM MRC.CTB108SS MRC.STB108SS	MRC.CTB115ZM MRC.CTB115SS -	MRC.CTB115ZM MRC.CTB115SS -
SEALMASTER	Composite Composite Composite Composite Stainless steel	Phosphorous nickel-coated Stainless steel (CR-XTREME) Zinc dichromate coated bearing Stainless steel (CRES CS) Stainless steel (CRES CS)	CRTBC-PN24 CRXTBC-24 CTBS-Z224 NGF CTBS-S224 STBS-S224	- - - - -	- - - - -
FYH	Stainless steel	Stainless steel	UCSPA208-24H1S6	-	-
DODGE	Composite	Stainless steel	-	-	-

SKF Food Line equivalent list – metric shafts

d 20 – 50 mm

Take-up	Housing	Insert bearing	Shaft diameter [mm]		
			20	25	30
SKF new	Composite	Zinc coated	WSTUC 20M-TPZM	WSTUC 25M-TPZM	WSTUC 30M-TPZM
	Composite Stainless steel	Stainless steel Stainless steel	WSTUC 20M-TPSS –	WSTUC 25M-TPSS –	WSTUC 30M-TPSS –
SKF old	Composite	Zinc coated	TUWK 20 LTA	TUWK 25 LTA	TUWK 30 LTA
	Composite Stainless steel	Stainless steel Stainless steel	TUWK 20 LTHR –	TUWK 25 LTHR –	TUWK 30 LTHR –
	Composite	Zinc coated	MRC.CTW20ZM	MRC.CTW25ZM	MRC.CTW30ZM
	Composite Stainless steel	Stainless steel Stainless steel	MRC.CTW20SS –	MRC.CTW25SS –	MRC.CTW30SS –
INA	Composite	Stainless steel	RTUEY20-TV-VA	RTUEY25-TV-VA	RTUEY30-TV-VA
NSK	Composite	Stainless steel	PST20CR	PST25CR	PST30CR
ASHAI	Stainless steel	Stainless steel	MUCT 204	MUCT 205	MUCT 206
FYH	Stainless steel	Stainless steel	UCST204H1S6	UCST205H1S6	UCST206H1S6
DODGE	Composite	Stainless steel	WSTU-SCEZ-20M-PCR	WSTU-SCEZ-25M-PCR	WSTU-SCEZ-30M-PCR

Take-up	Housing	Insert bearing	Shaft diameter [mm]		
			35	40	50
SKF new	Composite	Zinc coated	WSTUC 35M-TPZM	WSTUC 40M-TPZM	WSTUC 50M-TPZM
	Composite	Stainless steel	WSTUC 35M-TPSS	WSTUC 40M-TPSS	WSTUC 50M-TPSS
SKF old	Stainless steel	Stainless steel	–	–	–
	Composite	Zinc coated	TUWK 35 LTA	TUWK 40 LTA	TUWK 50 LTA
	Composite	Stainless steel	TUWK 35 LTHR	TUWK 40 LTHR	TUWK 50 LTHR
	Stainless steel	Stainless steel	–	–	–
	Composite	Zinc coated	MRC.CTW35ZM	MRC.CTW40ZM	MRC.CTW50ZM
	Composite	Stainless steel	MRC.CTW35SS	MRC.CTW40SS	MRC.CTW50SS
	Stainless steel	Stainless steel	–	–	–
INA	Composite	Stainless steel	RTUEY35-TV-VA	RTUEY40-TV-VA	RTUEY50TV-VA
NSK	Composite	Stainless steel	PST35CR	PST40CR	–
ASHAI	Stainless steel	Stainless steel	MUCT 207	MUCT 208	MUCT 210
FYH	Stainless steel	Stainless steel	UCST207H1S6	UCST208H1S6	UCST210H1S6
DODGE	Composite	Stainless steel	WSTU-SCEZ-35M-PCR	–	–

SKF Food Line equivalent list – inch shafts

d 3/4 – 1 1/4 in

Take-up	Housing	Insert bearing	Shaft diameter [in]		
			3/4	15/16	1
SKF new	Composite	Zinc coated	WSTUC 012-TPZM	WSTUC 015-TPZM	WSTUC 100-TPZM
	Composite	Stainless steel	WSTUC 012-TPSS	–	WSTUC 100-TPSS
	Stainless steel	Stainless steel	–	–	–
SKF old	Composite	Zinc coated	TUWK 3/4 LTA	TUWK 15/16 LTA	TUWK 1. LTA
	Composite	Stainless steel	TUWK 3/4 LTHR	–	TUWK 1. LTHR
	Stainless steel	Stainless steel	–	–	–
	Composite	Zinc coated	MRC.CTW012ZM	MRC.CTW015ZM	TUWK 1. LTA
	Composite	Stainless steel	MRC.CTW012SS	–	TUWK 1. LTHR
	Stainless steel	Stainless steel	–	–	–
NSK	Composite	Stainless steel	PST3/4CR	–	PST1.CR
FYH	Stainless steel	Stainless steel	UCST204-12H1S6	UCST205-15-H1S6	UCST205-16-H1S6
DODGE	Composite	Stainless steel	WSTU-SCEZ-012-PCR	WSTU-SCEZ-015-PCR	WSTU-SCEZ-100-PCR

SKF Food Line equivalent list – inch shafts

d 1 3/8 – 1 15/16 in

Take-up	Housing	Insert bearing	Shaft diameter [in]	
			1 3/8	1 7/16
SKF new	Composite	Zinc coated	WSTUC 106-TPZM	WSTUC 107-TPZM
	Composite	Stainless steel	WSTUC 106-TPSS	WSTUC 107-TPSS
	Stainless steel	Stainless steel	–	–
SKF old	Composite	Zinc coated	TUWK 1.3/8 LTA	TUWK 1.7/16 LTA
	Composite	Stainless steel	TUWK 1.3/8 LTHR	TUWK 1.7/16 LTHR
	Stainless steel	Stainless steel	–	–
	Composite	Zinc coated	MRC.CTW106ZM	MRC.CTW107ZM
	Composite	Stainless steel	MRC.CTW106SS	MRC.CTW107SS
	Stainless steel	Stainless steel	–	–
NSK	Composite	Stainless steel	–	PST1.7/16CR
FYH	Stainless steel	Stainless steel	UCST207-22H1S6	UCST207-23H1S6
DODGE	Composite	Stainless steel	WSTU-SCEZ-106-PCR	WSTU-SCEZ-107-PCR

Take-up	Housing	Insert bearing	Shaft diameter [in]		
			1 3/16	1 1/4	1 1/4
SKF new	Composite	Zinc coated	WSTUC 103-TPZM	WSTUC 104S-TPZM	WSTUC 104-TPZM
	Composite Stainless steel	Stainless steel Stainless steel	WSTUC 103-TPSS -	WSTUC 104S-TPSS -	WSTUC 104-TPSS -
SKF old	Composite	Zinc coated	TUWK 1.3/16 LTA	TUWK 1.1/4 ALTA	TUWK 1.1/4 LTA
	Composite Stainless steel	Stainless steel Stainless steel	TUWK 1.3/16 LTHR -	TUWK 1.1/4 ALTHR -	TUWK 1.1/4 LTHR -
	Composite	Zinc coated	MRC.CTW103ZM	MRC.CTW104ZMR	MRC.CTW104ZM
	Composite Stainless steel	Stainless steel Stainless steel	MRC.CTW103SS -	MRC.CTW104SSR -	MRC.CTW104SS -
NSK	Composite	Stainless steel	PST1.3/16CR	PST1.1/4RCR	PST1.1/4CR
FYH	Stainless steel	Stainless steel	UCST206-19H1S6	UCST206-20H1S6	UCST207-20H1S6
DODGE	Composite	Stainless steel	WSTU-SCEZ-103-PCR	WSTU-SCEZ-104S-PCR	WSTU-SCEZ-104-PCR

Take-up	Housing	Insert bearing	Shaft diameter [in]	
			1 1/2	1 15/16
SKF new	Composite	Zinc coated	WSTUC 108-TPZM	WSTUC 115-TPZM
	Composite Stainless steel	Stainless steel Stainless steel	WSTUC 108-TPSS -	WSTUC 115-TPSS -
SKF old	Composite	Zinc coated	TUWK 1.1/2 LTA	TUWK 1.15/16 LTA
	Composite Stainless steel	Stainless steel Stainless steel	TUWK 1.1/2 LTHR -	TUWK 1.15/16 LTHR -
	Composite	Zinc coated	MRC.CTW108ZM	MRC.CTW115ZM
	Composite Stainless steel	Stainless steel Stainless steel	MRC.CTW108SS -	MRC.CTW115SS -
NSK	Composite	Stainless steel	PST1.1/2CR	-
FYH	Stainless steel	Stainless steel	UCST208-24H1S6	UCST210-31H1S6
DODGE	Composite	Stainless steel	-	-

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