

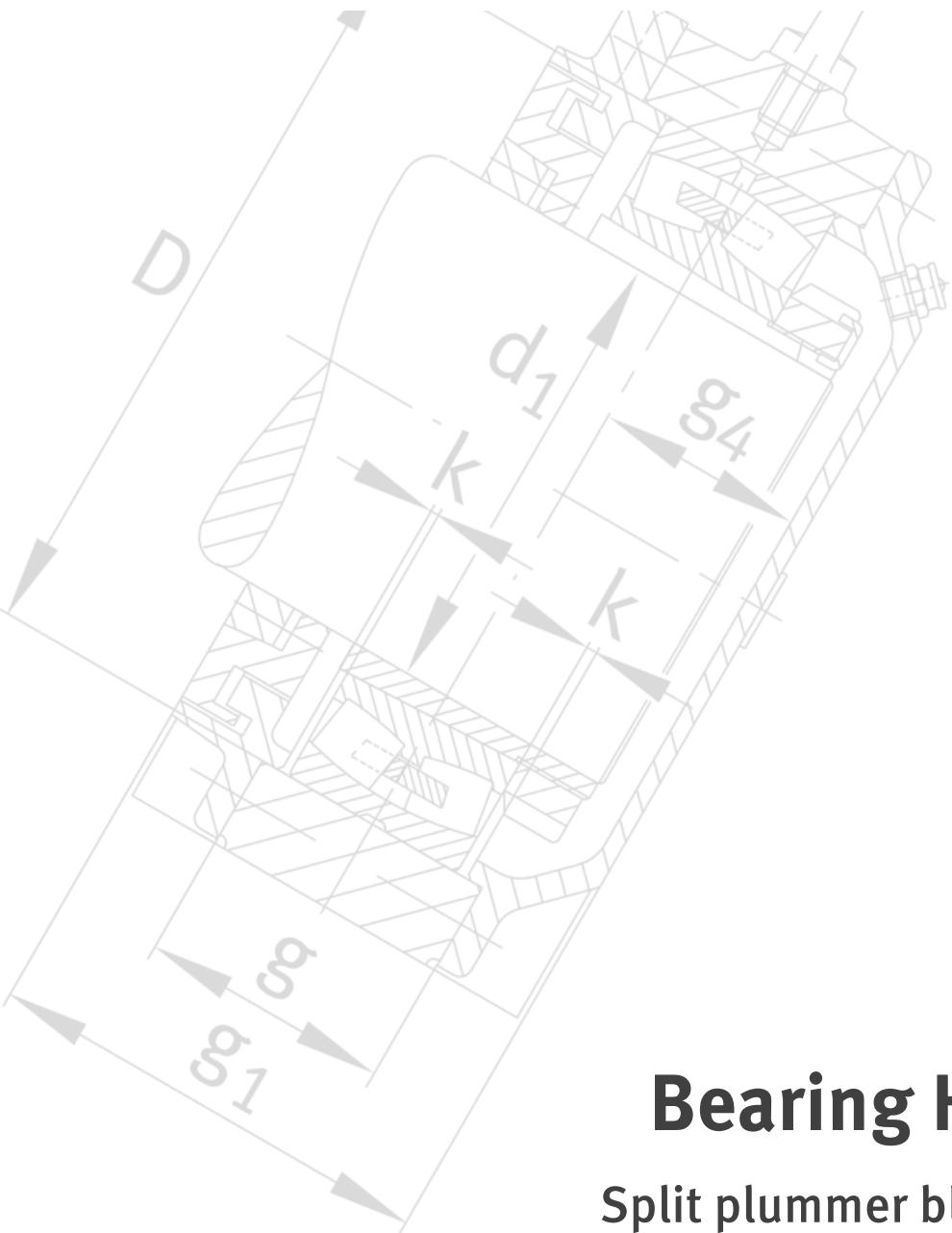
FAG



Bearing Housings

Split plummer block housings
Unsplit plummer block housings
Take-up housings
Flanged housings
Housings for specific industrial and
railway applications

SCHAEFFLER



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Split plummer block housings
Unsplit plummer block housings

Take-up housings

Flanged housings

Housings for specific industrial and
railway applications



All data have been prepared with a great deal of care and checked for their accuracy. However, no liability can be assumed for any incorrect or incomplete data. We reserve the right to make technical modifications.

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Foreword

Schaeffler Technologies

Schaeffler Technologies with its brands INA and FAG is a leading worldwide supplier of rolling bearings, spherical plain bearings, plain bearings, linear products, accessories specific to bearings and comprehensive maintenance products and services. Schaeffler has approximately 40 000 catalogue products manufactured as standard, providing an extremely wide portfolio that gives secure coverage of applications from 60 industrial market sectors.

The central factors responsible for this success are our outstanding strength in innovation, our global focus on local customer proximity, highly developed manufacturing methods, extremely high quality standards in all processes and our ability to transform specific customer requirements quickly and accurately into cost-effective solutions. Against this background of expertise, knowledge and experience together with our wide range of catalogue items, we see ourselves as a high performance, customer focussed partner.

Research and development

As a company looking to the future, we are especially active in the field of research and development. The key areas in this respect include not only research into fundamental principles, materials technology, tribology and calculation but also extensive inspection and test methods as well as activities to optimise manufacturing technology. This is oriented towards ensuring the continuous development, improvement and application of our products in the long term.

We carry out research and development on a global basis. Our development centres are linked with each other worldwide and are thus in a position to exchange current information on a very short timescale as well as access and communicate the most recent data. This ensures that a uniform level of knowledge and information is available worldwide.

In addition to continued development of standard products, we work closely in research and development activities with our customers where specific customer solutions are required. They can thus benefit from the best product for their application, with the maximum possible performance capacity at a cost-effective price.

Foreword

Worldwide presence

Through a closely knit network of development and manufacturing sites, sales companies and an international distribution structure, we are represented throughout the world. This global presence ensures effective linkage between the major markets in Europe, India, South East Asia/Pacific Region, East Asia, North and South America. As a result, we have an on-site presence with service and technical advice in close proximity to the customer.

We take orders from throughout the world and make deliveries worldwide too. Furthermore, we support our customers worldwide in resolving their bearing arrangement requirements, respond to technical queries and develop specific bearing arrangement solutions in local partnership with our customers.

Together we move the world

For us, technical progress means never standing still. In partnership with you, we are continually working on new solutions so that your vision and our technical ideas can continue to become a reality, to your benefit.

With our products and our knowledge, we can together continue to fulfil the challenges of your market in relation to rolling bearing arrangements. To this end, this catalogue is an important instrument.

Housings catalogue GK 1

Catalogue GK 1, Bearing Housings, describes the range of standard housings and gives essential information on housings for specific industrial and railway applications.

The catalogue contains all the information necessary for the selection of standard housings. The suitable housing can be selected and configured for a wide variety of different applications, for example in relation to the required bearing arrangement type, lubrication or housing seals. Through the allocation of the suitable bearing to each housing, extensive geometrical data and a large amount of other information, this catalogue is a comprehensive tool for providing information and facilitating advisory work.

Standard housings

The standard housings comprise split and unsplit plummer block housings, take-up housings and flanged housings.

In the case of split plummer block housings, the upper section of the housing can be removed. This gives significantly simpler mounting and maintenance. Unsplit plummer block housings are used where the bearing arrangement is subjected to very high loads.

Take-up housings were developed specifically for tensioner drum bearing arrangements in belt conveyor plant. There is a yoke-shaped drawbar eye for attachment to the tensioning device.

Flanged housings have a flange perpendicular to the shaft axis and thus offer the ideal adjacent construction for numerous machines and pieces of equipment where the use of plummer block housings would be too demanding.

Special housings

Special housings are used in particularly challenging applications where not all the requirements can be fulfilled by the use of standard housings. Apart from specific industrial applications, these are principally applications from the railway sector.

Special housings are developed in close cooperation and consultation with the customer. Schaeffler uses its comprehensive know-how of rolling bearing technology in order to ensure that every housing is optimally matched to the specific application.

This catalogue contains selected examples giving an insight into the diverse areas of application and possibilities of housings for specific industrial and railway applications.

Foreword

Current level of technology

The data in the catalogue represent the current level of technology and manufacture as of November, 2015.

Any data in earlier publications that do not correspond to the data in this catalogue are therefore invalid.

Definition of the Attention symbol

This catalogue predominantly gives descriptions of standard housings. Since these are used in numerous applications, we cannot make a judgement as to whether any malfunctions will cause harm to persons or property.

Follow instructions



It is always and fundamentally the responsibility of the designer and user to ensure that all specifications are observed and that all necessary information is communicated to the end user. This applies in particular to applications in which product failure and malfunction may constitute a hazard to human beings.

If guidelines marked with the Attention symbol are not observed, damage or malfunctions in the product or the adjacent construction may occur.

medias® professional electronic information system

medias® professional, the proven selection and information system, presents the INA and FAG catalogue products in electronic format. As with the printed catalogue, this gives our customers product information on both brands in a single data source. This saves time and gives easier handling.

medias® professional is available online in several languages, is easy to navigate and is particularly clear thanks to the use of numerous pictures, diagrams and models. There are also highly representative application examples, classified by market sector. Datasheets on the bearings and bearing housings can be generated as PDF files. It includes a lubricant database and also the web2CAD link for direct download and inclusion of 3D models.

medias® professional focusses on the individual bearing. The complete shaft can be simulated and any influences on the bearings arising from its deformation can be determined using the calculation program BEARINX. This program can also be made available to direct customers as BEARINX-online via the Internet (for conditions, see the INA/FAG homepage).



<http://medias.schaeffler.com>

Selection wizard for bearing housings in *medias*[®] professional

The selection wizard for bearing housings in *medias*[®] professional gives comprehensive assistance in the selection of housings and housing units. It takes account of the environmental conditions and the requirements placed on the bearing arrangement as well as the characteristics of the housings and the bearings suitable for the housings. Once the specified data has been inputted, the software generates detailed lists of results that also contain information on further accessories.

In conclusion, *medias*[®] professional is a comprehensive, reliable system to help you help yourself answer many questions on rolling bearing technology by electronic means, quickly and at any location.



<http://bit.ly/HousingSelectionEN>

***medias*[®] interchange**

medias[®] interchange is available online and assists in the selection process where rolling bearings or housings from other manufacturers are to be replaced by products of the INA and FAG brands.

If a rolling bearing and housing designation is entered in *medias*[®] interchange, this will indicate the manufacturer and INA or FAG designations. A traffic light system will quickly indicate whether and to what extent the INA or FAG part is interchangeable. Green indicates fully interchangeable, yellow indicates conditional interchangeability and red indicates non-interchangeable.



<http://bit.ly/InterchangeEN>

Other technical publications

This catalogue contains split and unsplit plummer block housings as well as take-up housings and flanged housings. In addition, it also gives an overview of housings for specific industrial and railway applications, on which detailed information is provided in a series of other technical publications.

Furthermore, we develop and manufacture many other products and systems that are of significant interest in terms of technical progress and cost-effectiveness for rotary and linear bearing arrangements as well as for the automotive sector. These are covered in separate technical publications that can be obtained upon request.



www.medien.schaeffler.com

Foreword

Catalogue SG 1 for Insert Bearings and Housing Units

In addition to the bearing housings described in Catalogue GK 1, which are predominantly for spherical roller bearings, barrel roller bearings and self-aligning ball bearings with a tapered or cylindrical bore, Schaeffler also offers a wide range of housing units with insert bearings. The insert bearings are based on single row deep groove ball bearings.

Insert bearings and housing units are robust, ready-to-fit machine elements for the design of economical bearing arrangements. These products are available in many different series, have proven effective over many years and predominantly comprise a housing fitted with an insert bearing. The housing bore and the bearing outer ring have a spherical profile and are matched to each other. This allows the bearing ring in the housing to adapt to static angular misalignment of the shaft.

Due to their special method of location, principally by means of an eccentric locking collar or grub screws, the insert bearings can be easily located on the shaft, *Figure 1* and *Figure 2*. They are particularly easy to fit when they are used in combination with drawn shafts. The insert bearings are fitted with multi-piece seals that effectively protect the rolling element set against contamination and moisture, even under difficult and critical operating conditions.

Further information

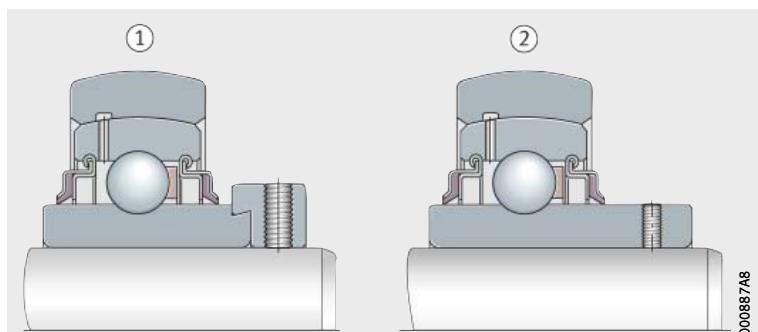
- The complete catalogue range can be found in Catalogue SG 1, Insert Bearings and Housing Units.
- Download and ordering: <http://medien.schaeffler.de>.

Insert bearings

The outer rings of the insert bearings have a spherical or cylindrical outside surface. The insert bearings are available with a metric or inch size bore. Black Series insert bearings with a Durotect B coating have basic anti-corrosion protection. Corrosion-resistant insert bearings are available in a high-grade steel version or with the Corrotect coating.

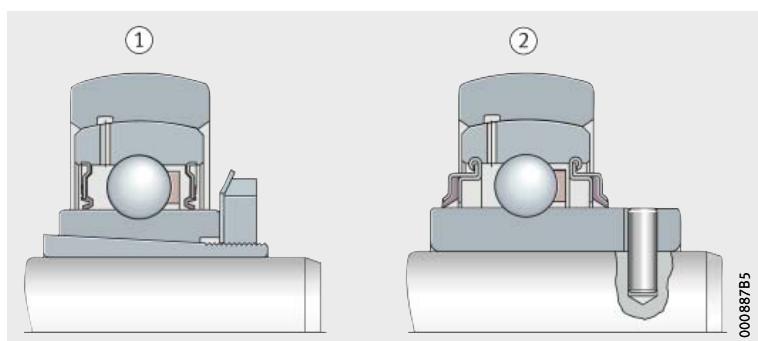
- ① Eccentric locking collar
② Grub screws in inner ring

Figure 1
Location variants
of insert bearings



- ① Adapter sleeve and locknut
② Drive slot

Figure 2
Location variants
of insert bearings

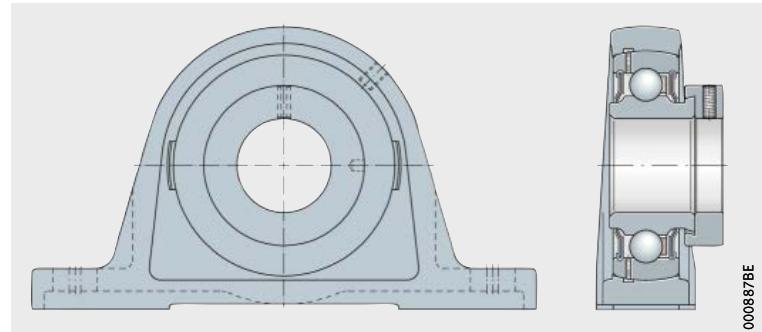


Housing units

Housing units are available as plummer block, flanged and take-up housing units in numerous different designs. The units are ready-to-fit and comprise cast iron or sheet steel housings in which insert bearings are integrated, *Figure 3* to *Figure 6*.

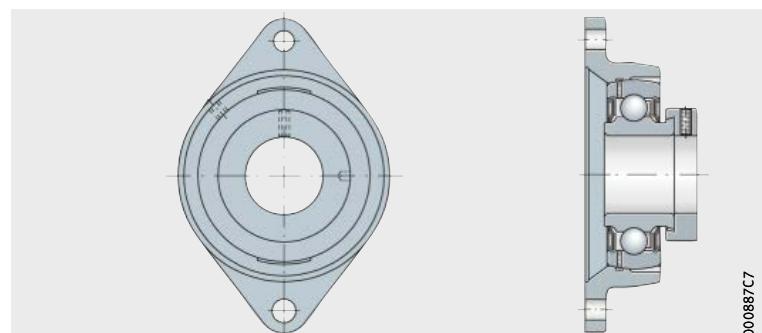
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Figure 3
Plummer block housing unit
with cast iron housing



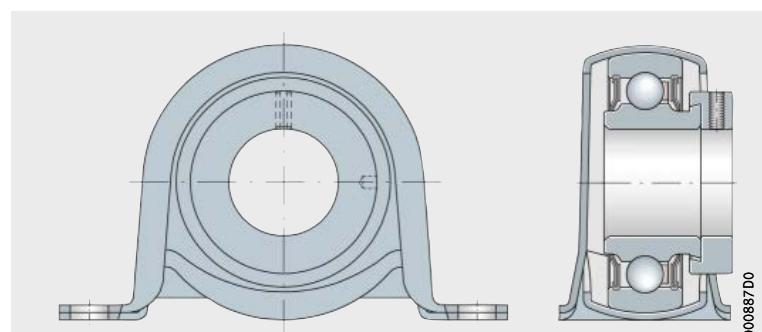
PCJT

Figure 4
Flanged housing unit
with cast iron housing



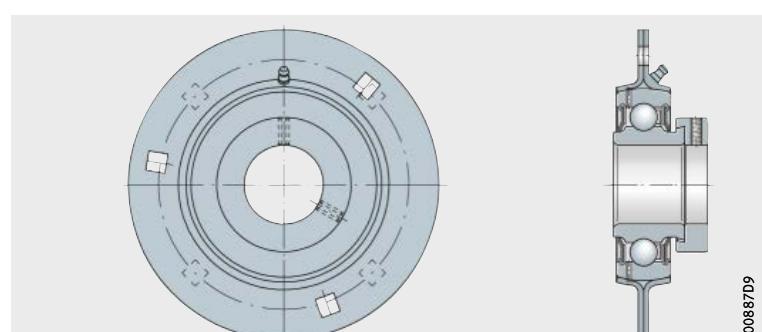
PB

Figure 5
Plummer block housing unit
with sheet steel housing



GRA

Figure 6
Flanged bearing unit
with sheet steel housing



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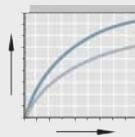
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Split plummer block housings

- SNV
- S30
- SNS
- RLE
- KPG, KPGZ
- LOE



Unsplit plummer block housings

- VRE3
- BNM
- BND



Take-up housings

- SPA



Flanged housings

- F112
- F5



Housings for specific industrial and railway applications

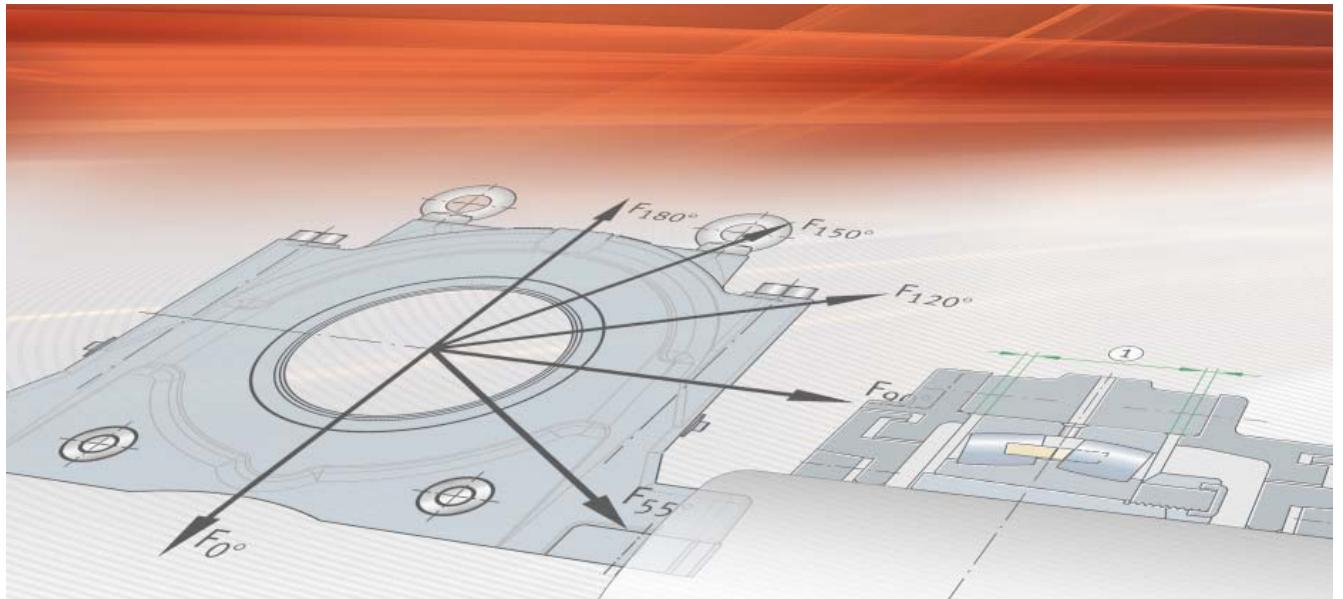


Mounting and maintenance



Addresses





Technical principles

Standard housings

Materials and anti-corrosion protection

Design of bearing arrangements

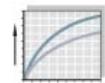
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Lubrication

Load carrying capacity

Mounting and dismounting

Special solutions



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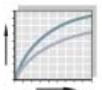
Standard housings

Available designs

Standard housings		Split plummer block housings		
		SNV	S30	SNS
Shaft diameter	over mm	20	110	115
	inch	3/4	—	47/16
	incl. mm	160	150	530
	inch	51/2	—	191/2
Bearing type				
Self-aligning ball bearings				
Spherical roller bearings				
Barrel roller bearings				
Cylindrical roller bearings				
Deep groove ball bearings				
Angular contact ball bearings				
Spherical roller bearings, split				
Mounting method				
On adapter sleeve				
On withdrawal sleeve				
On adjustment sleeve				
On cylindrical seat				
Lubrication				
Grease				
Oil				
Seal				
Labyrinth seal				
Taconite seal				
Double lip seal				
V ring seal				
Felt seal				
Bolt-on seal				
Split labyrinth seal				
Split Taconite seal				
High-pressure packing				

● Suitable

■ Available design



				Unsplit plummer block housings			Take-up housings	Flanged housings	
RLE	KPG	KPGZ	LOE	VRE3	BNM	BND	SPA	F112	F5
180	470	500	50	25	150	60	50	20	20
-	-	-	-	-	-	-	-	-	-
500	1250	1320	240	120	400	420	400	60	100
-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	●	●
●	●	●	●	-	●	●	●	-	●
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Standard housings

Housing concepts

FAG standard housings are subdivided, in accordance with their fundamental design, into:

- split plummer block housings
- unsplit plummer block housings
- take-up housings
- flanged housings.

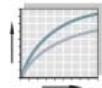
In the case of split plummer block housings, the housing body is split into an upper section and a lower section. This gives significantly simpler mounting and maintenance. The two halves of a housing form a matched pair and must not be interchanged with parts from other housings.

In the case of unsplit plummer block housings, the housing body is a single piece, so the bearing seat is free from parting lines. The housings are used where the bearings are subjected to very high loads.

The unsplit plummer block housings also include plummer block housing units VRE3. These are made available as completely assembled and greased bearing arrangement units comprising a housing, seals, bearings and shaft.

Take-up housings SPA were developed specifically for tensioner drum bearing arrangements in belt conveyor plant. The housings are unsplit. There is a yoke-shaped drawbar eye for attachment to the tensioning device.

Flanged housings have a flange perpendicular to the shaft axis and thus offer the ideal adjacent construction for numerous machines and pieces of equipment where the use of plummer block housings would be too demanding.



Materials and anti-corrosion protection

Materials

Depending on the housing series, the standard material used for FAG standard housings is flake graphite cast iron, spheroidal graphite cast iron or cast steel.

The material is generally indicated by a suffix in the housing designation. This indication is omitted in the case of some housings where these are only available in one material variant.

Suffixes:

- L for flake graphite cast iron
- D for spheroidal graphite cast iron
- S for cast steel.

By agreement, housings made from other materials are also available. The material should be selected on the basis of a careful analysis of the application and the associated requirements.

Flake graphite cast iron

For standard housings made from flake graphite cast iron, cast iron in accordance with DIN EN 1561 is generally used. In these cast materials with a iron/carbon/silicon base, the graphite inclusions are present in lamellar form. Under tensile load, these act as internal notches. The tensile strength of flake graphite cast iron is therefore limited and its ductility is comparatively low. The compressive strength of this alloy is, however, higher than the tensile strength by a factor of 4 and these alloys also have good inherent stability.

Flake graphite cast iron is therefore used in the case of housings with simple requirements. Furthermore, flake graphite cast iron represents the most economical variant of the cast materials available for use in housings.

Spheroidal graphite cast iron

For standard housings made from spheroidal graphite cast iron, cast iron in accordance with DIN EN 1563 is generally used. Due to an addition of magnesium or, more rarely cerium or calcium, the graphite inclusions adopt a spheroidal form during casting. As a result, the tensile strength and ductility are higher than those of the grades with a lamellar graphite form.

Spheroidal graphite cast iron is therefore used in the case of housings with an increased profile of requirements. The costs of spheroidal graphite cast iron are between those for flake graphite cast iron and cast steel.

Materials and anti-corrosion protection

Cast steel

For standard housings made from cast steel, steel in accordance with DIN EN 10293 is generally used. Both unalloyed and alloyed steels are suitable for casting. The unalloyed cast steel used for housings combines moderate to high strength values with high elongation at fracture.

Cast steel is therefore used in the case of housings with high requirements for mechanical properties as well as a requirement for high ductility.

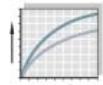
The costs of cast steel are higher than the costs for flake graphite cast iron or spheroidal graphite cast iron. It is therefore recommended that it should be checked whether the material is really necessary in relation to the requirements of the specific application.

Anti-corrosion protection

All outer surfaces of standard housings not machined by chip-forming methods and the locating surfaces on the lower housing section have a universal paint coating. The coating can be finished using all synthetic resin, polyurethane, acrylic, epoxy resin, chlorinated rubber, nitrocellulose and acid-hardening hammer tone finishes.

Inner and outer surfaces machined by chip-forming methods are provided with anti-corrosion protection that can be easily removed. It is recommended that only volatile solvents and lint-free cloths should be used.

If there are particular requirements relating to paint coating and anti-corrosion protection, special solutions are possible. If particular specifications are presented by the customer, we check their feasibility and these can be implemented if the result is positive.



Design of bearing arrangements

Locating and non-locating bearing arrangements

The guidance and support of a rotating shaft generally requires at least two bearings arranged at a certain distance from each other. There are various possibilities for achieving this arrangement.

In many cases, the locating/non-locating bearing arrangement is used in which one bearing position has a locating bearing arrangement and the other has a non-locating bearing arrangement.

In addition, the adjusted bearing arrangement and the floating bearing arrangement are frequently used arrangements.

Axial length compensation

On a shaft supported by two radial bearings, the distances between the bearing seats on the shaft and in the housing frequently do not coincide as a result of manufacturing tolerances. The distances may also change as a result of temperature increases during operation. These differences in distance are compensated in the non-locating bearing.

There are bearing types in which, due to the internal construction, the inner ring and outer ring cannot be displaced relative to each other. As a result, no axial length compensation between the shaft and housing can occur within the bearing. Examples include spherical roller bearings, barrel roller bearings and deep groove ball bearings. These bearings can only function as a non-locating bearing if the inner ring or outer ring has a fit that allows displacement. In the case of bearing housings, this means that the outer ring must be capable of displacement in the housing. The tolerance of the bearing seat in the housing is designed accordingly and is described in the information on accuracy for the specific housing series.

Transmission of axial forces

If axial forces must be transmitted, a locating bearing is necessary. The locating bearing also gives axial guidance of the shaft. In order to prevent axial preload, shafts with more than two bearings have only one locating bearing.

Locating and non-locating bearing concepts

In order to achieve locating bearing arrangements as well as non-locating bearing arrangements, one of the following concepts is applied in each housing series:

- housings in a locating bearing design and non-locating bearing design, see page 26
- housings with locating rings, see page 27.

A special case here is the unsplit plummer block housings VR3, where two bearing positions are integrated in one housing. Complete plummer block housing units VRE3 can be ordered that, depending on their design, contain a locating/non-locating bearing arrangement, an adjusted bearing arrangement or a floating bearing arrangement.

Design of bearing arrangements

Housings in locating bearing design and non-locating bearing design

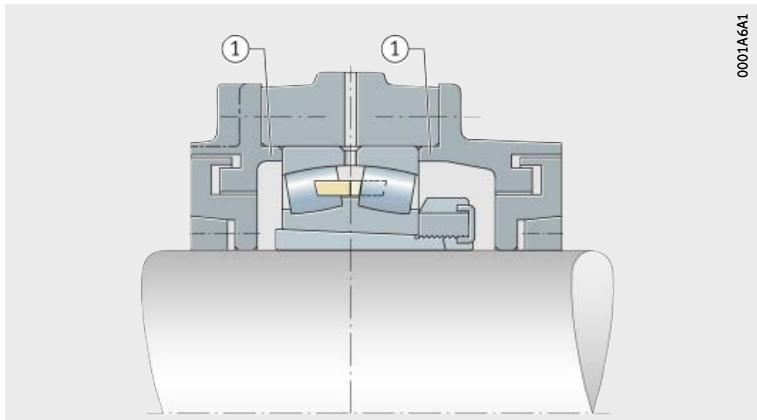
In this housing concept for the implementation of a locating or non-locating bearing arrangement, the housing must be ordered as necessary in a locating bearing design or a non-locating bearing design. This applies to the housings RLE, KPG, KPGZ, LOE, BNM, BND and SPA.

In the case of the locating bearing design, the bearings are axially clamped between the covers on the housings, *Figure 1*. In the case of the non-locating bearing design, the covers have shorter centring collars. As a result, the bearing can be axially displaced, *Figure 2*.

When ordering, the designation indicates whether the housing should be supplied in a locating or non-locating bearing design.

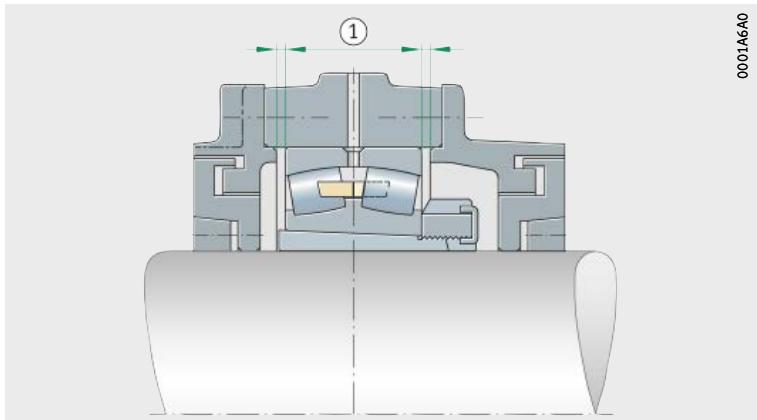
① Centring collars on covers
for axial location of the bearing

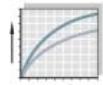
Figure 1
Housing
in locating bearing design



① Bearing can be axially displaced

Figure 2
Housing
in non-locating bearing design





Housings with locating rings

In this housing concept for the implementation of a locating or non-locating bearing arrangement, locating rings are available as accessories that can be used to set the locating bearing function, *Figure 3*. This applies to the housings SNV, S30, SNS and F5.

In the case of these housings, the bearing seats are designed such that the bearing is capable of axial displacement and therefore acts as a non-locating bearing if locating rings are not inserted, *Figure 4*.

Once locating rings are inserted, the bearings are axially located. The locating rings are generally inserted in the housing on both sides of the bearing. Normally, an even number of locating rings is specified in order to achieve concentric seating of the bearing in the housing. In some cases, a single locating ring is sufficient.

The number of locating rings required is given in the dimension tables. Locating rings must be ordered separately.

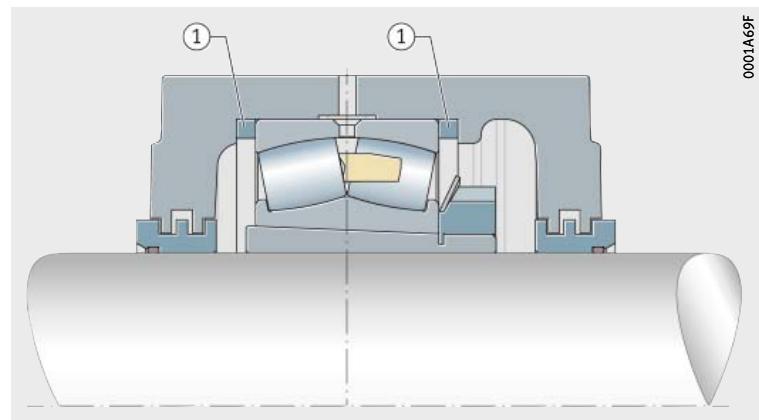


Figure 3
Locating bearing arrangement,
as a result of inserted locating rings

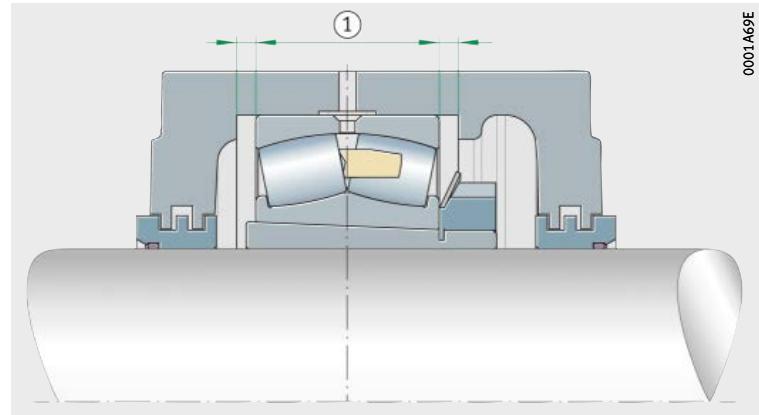


Figure 4
Non-locating bearing arrangement,
no locating bearing rings inserted

Sealing

Functions of the sealing arrangement

The sealing arrangement has a considerable influence on the operating life of a bearing arrangement. Its function is to retain the lubricant in the bearing and prevent the ingress of contaminants into the bearing.

Contaminants may have various effects:

- A large quantity of very small, abrasive particles causes wear in the bearing. The increase in clearance or noise brings the operating life of the bearing to an end.
- Large, overrolled hard particles reduce the fatigue life since pitting occurs at the indentation points under high bearing loads.

Seals

The rolling bearings normally used in bearing housings are spherical roller bearings, barrel roller bearings and deep groove ball bearings, which do not have their own sealing arrangement. The bearing position must therefore be sealed by means of the housing.

In order to seal the housing against the shaft, there are contact seals, non-contact seals and combinations of these are available, depending on the operating conditions.

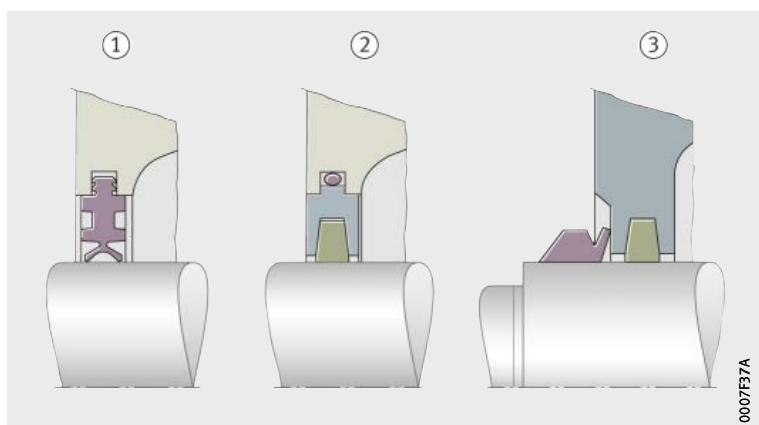
Contact seals

Contact seals are normally in contact with the running surface under radial contact force. The contact force should be kept small to avoid an excessive increase in frictional torque and temperature. The frictional torque and temperature as well as the wear of the seal are also affected by the lubrication of the seal at the running surface, the roughness of the running surface and the sliding velocity.

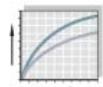
In bearing housings, the contact seals used are mainly double lip seals, felt seals and felt seals with a V ring, *Figure 1*.

- ① Double lip seal
- ② Felt seal
- ③ Felt seal with V ring

Figure 1
Examples of contact seals



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Non-contact seals

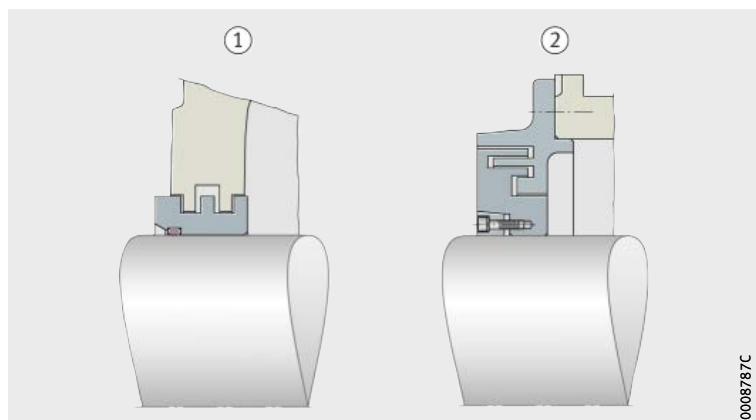
With non-contact seals, there is no friction in the lubricant gap other than that due to lubricant friction itself. The seals do not undergo wear and remain capable of operation for a long period. Since they generate no heat, non-contact seals are also suitable for very high speeds.

In the case of these seals, the lubricant in the lubrication gap makes an important contribution to the sealing action. There is a possibility of separate relubrication in the case of some seals.

In bearing housings, the seals used are mainly radial labyrinth, axial labyrinth and combinations of these types, *Figure 2*.

- ① Radial labyrinth
- ② Axial labyrinth

Figure 2
Examples of non-contact seals



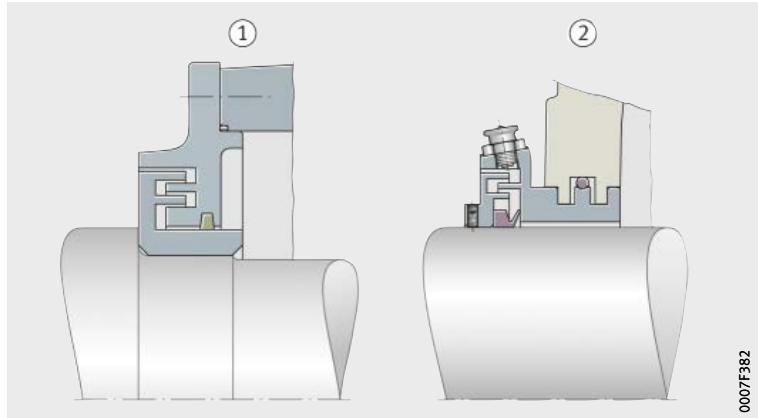
Sealing

Combined seals

Where high requirements for sealing action are present, combined seals comprising contact sealing elements and non-contact sealing elements are often used, *Figure 3*. The combination of a labyrinth seal that can be relubricated with a V ring is also known as a Taconite seal. This seal is characterised by particularly good sealing action against dust and abrasive particles.

① Labyrinth and felt seal
② Taconite seal

Figure 3
Example of combined seals



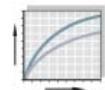
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Covers

Where the shaft does not pass fully through the housing, one side of the housing is closed by means of a cover. In split housings, the cover is generally inserted in the lower half of the housing and the upper half of the housing is then set in place. In the case of unsplit housings, the cover is flange mounted on the housing.

The maximum operating temperatures of the covers are dependent on the materials used. In the case of some housings, it is possible to select from different designs.

Where a continuous shaft is present, many housings are also fitted with covers. These covers are not closed but are of a ring-shaped design and are sealed against the shaft.



Lubrication

Principles

Lubrication is an essential precondition for the reliable function and long operating life of rolling bearings.

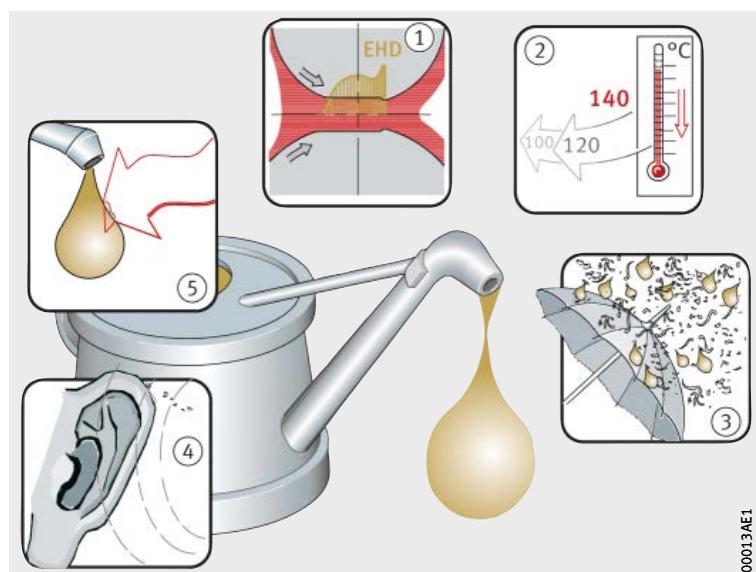
Functions of the lubricant

The lubricant should, *Figure 1*:

- form a lubricant film on the contact surfaces that is sufficiently capable of supporting loads and therefore prevent wear and premature fatigue ①
- dissipate heat in the case of oil lubrication ②
- provide additional sealing for the bearing against external solid and fluid contaminants in the case of grease lubrication ③
- provide damping of running noise ④
- protect the bearing against corrosion ⑤.

- ① Formation of a lubricant film capable of supporting loads
② Heat dissipation in the case of oil lubrication
③ Sealing of the bearing against external contaminants in the case of grease lubrication
④ Damping of running noise
⑤ Protection against corrosion

Figure 1
Functions of the lubricant



Lubrication

Housing selection and type of lubrication

The design of a bearing housing determines how the bearing position can be supplied with lubricant. This affects both the type of lubricant and the possibilities for replacing the lubricant after a certain operating duration.

Before a bearing housing is selected, the type of lubrication must be defined for the bearing, which means whether the bearing is to be lubricated with grease or oil. The following criteria must be taken into consideration.

Criteria for grease lubrication

Grease lubrication requires less work in design terms than oil lubrication. As a result, grease lubrication is normally used in preference.

The advantages of grease lubrication are as follows:

- less design work for feed systems than in the case of oil lubrication
- sealing action outwards due to a grease collar or grease-filled labyrinth
- reservoir effect due to storage of grease in the housing
- long operating life with little maintenance work (lifetime lubrication possible in certain circumstances).

Criteria for oil lubrication

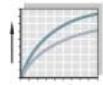
In contrast to grease lubrication, oil lubrication allows the direct dissipation of heat from the bearing by means of the lubricant, especially at high speeds and loads. The best cooling action is achieved through the use of recirculating oil lubrication in conjunction with additional cooling of the oil.

The advantages of oil lubrication are as follows:

- the possibility of heat dissipation from the bearing
- flushing out of contaminant and wear particles
- good lubricant distribution and supply to contact areas
- very low friction losses when using minimal quantity lubrication.

FAG standard housings

Most FAG standard housings are designed for grease lubrication, while some are designed for oil lubrication, see table, page 20. There are also housing series that can be supplied in either a design for grease lubrication or a design for oil lubrication.



Housings for grease lubrication

In the case of FAG standard housings, grease lubrication is the most frequently used type of lubrication.

Where grease lubrication is applied, bearings can be operated in many applications with lifetime lubrication, which means that the grease quantity introduced at the time of mounting is sufficient for the entire bearing rating life in conjunction with suitable seals. If greater strain is present, the grease must be refreshed by means of targeted relubrication.

Initial greasing

The greasing of bearings and housings at the time of mounting is described as initial greasing.

Grease quantities

For initial greasing, the basic rule is that the bearing should be filled with grease to 100% and the free volume of the housing to 60%. The free volume is the space that remains in the housing once the bearing, shaft and seals have been fitted. In the case of housings with labyrinth or Taconite seals, the labyrinth passages must also be filled with grease.

As a variation from this basic rule, it is recommended in certain applications that the housing and seal cavities should be filled to 100%. One example is plummer block housings SNV in applications with lower speeds and a non-contact seal, where the grease is required to carry out a sealing function.

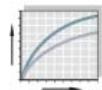
For plummer block housings BND and take-up housings SPA, the specification is always that the bearing and the free volume in the housing should be filled to 100%.

For many housing series, tables stating the recommended grease quantities for initial greasing are available.

The recommended degree of filling for greasing of the bearing may, as a function of the application and speed, deviate from 100%. A smaller grease quantity is thus recommended for very high speeds. This allows easier initial distribution of the grease as the bearing starts to move and restricts the associated increase in temperature.

Lubrication

Relubrication	If relubrication is carried out, additional grease is introduced into the housing at suitable positions. A facility must always be provided so that superfluous grease can exit the housing.
Positions for relubrication	For each bearing housing, positions for relubrication are provided that are matched to the characteristic of the bearing and housing. For relubrication, lubrication nipples are screwed in here. Where bearings have a lubrication groove and lubrication holes, the grease can be introduced centrally into the housing if the housing is also provided with a suitable lubrication hole. The grease then travels directly to the raceway of the bearing. Alternatively, the grease can be introduced into the side of the housing. The grease then travels via the end face of the bearing to the raceway. For Taconite seals, and in some housings also for labyrinth seals, there are separate positions for relubrication of the seals.
Egress of superfluous lubricant	If an opened grease outlet hole or non-contact seal is present, there is no risk of overgreasing of the bearing. If the temperature reaches a higher level during relubrication due to the churning energy of the grease, it will return to its initial value after several hours of running once the excess grease has escaped.  In the interests of the environment, controlled metering must be ensured. Any grease that escapes via the grease outlet holes must be collected by means of a suitable device.
Automatic lubricators	In order to provide bearings with a reliable supply of lubricant for relubrication, the use of automatic lubricators is recommended. These make it possible to dispense a defined grease quantity at appropriate intervals. As part of its industrial services activities, Schaeffler offers suitable lubrication devices such as the lubrication system CONCEPT8, see page 422.
Greases	In order to achieve a long operating life and high operational security of the bearing arrangement, we recommend the use of the Arcanol rolling bearing greases. These are specifically developed and tested for bearing arrangements. As part of its industrial service activities, Schaeffler offers a comprehensive range of Arcanol greases, see page 419.
Further information	<ul style="list-style-type: none">■ TPI 168, Rolling Bearing Greases Arcanol■ TPI 176, Lubrication of Rolling Bearings■ WL 80382, FAG CONCEPT8.



Housings for oil lubrication

In addition to housings for grease lubrication, Schaeffler also offers housings designed for oil lubrication.

In the case of split housings, the parting line between the upper and lower sections of the housing must be sealed with a thin layer of a commercial sealant (with permanent elasticity). The covers on the housing must also be sealed.

Lubrication methods

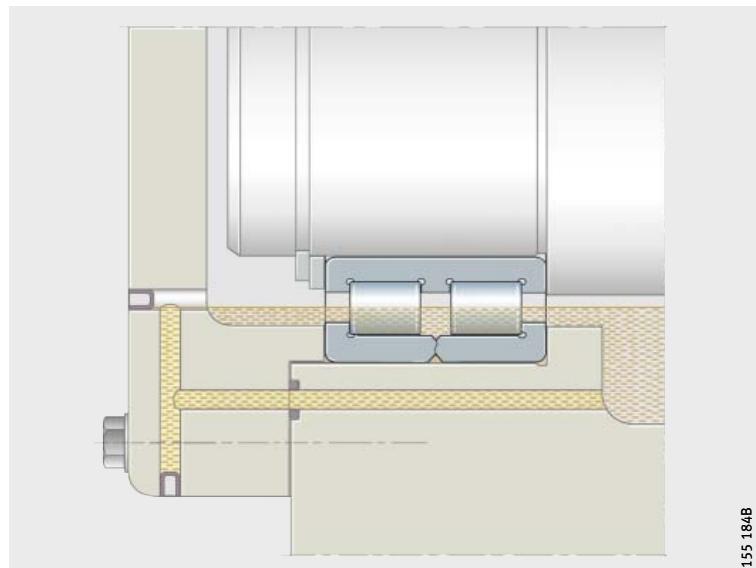
The methods used for oil lubrication of FAG plummer block housings are:

- oil bath lubrication
- recirculating oil lubrication.

Oil bath lubrication

If oil bath lubrication is used, *Figure 2*, the oil level must reach the centre of the lowest rolling element. If the oil level is higher than this, the bearing temperature may increase at high circumferential velocities as a result of splashing losses. Furthermore, foaming of the oil may occur.

Oil bath lubrication is suitable for speed parameters up to $n \cdot d_M = 300\,000 \text{ min}^{-1} \cdot \text{mm}$. At $n \cdot d_M < 150\,000 \text{ min}^{-1} \cdot \text{mm}$, the bearing may be completely immersed.



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Figure 2
Oil bath lubrication (schematic)



When using oil bath lubrication, venting of the housing is absolutely necessary. For example, the filling hole can be closed off using a bleed screw.

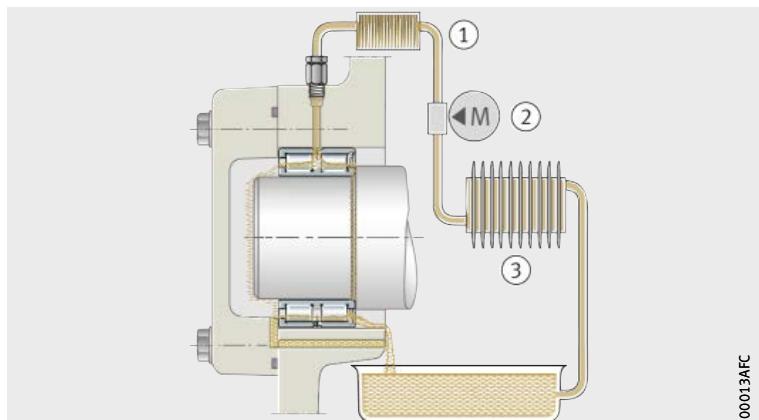
Lubrication

Recirculating oil lubrication

In recirculating oil lubrication, the oil is subjected to additional cooling, *Figure 3*. It can therefore dissipate heat from the bearing. In addition, contaminant and wear particles can be flushed out of the bearing. It is always recommended that the oil circuit is fitted with a filter.

- ① Filter
- ② Pump
- ③ Cooling system

Figure 3
Recirculating oil lubrication
(schematic)



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Oil selection

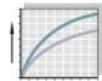
For the lubrication of rolling bearings, mineral oils and synthetic oils are essentially suitable.

Oils with a mineral oil base are used most frequently. They must fulfil at least the requirements according to DIN 51517 or DIN 51524.

Special oils, often synthetic oils, are used under extreme operating conditions or where there are special requirements relating to oil resistance. In these cases, please consult the lubricant manufacturers or the Schaeffler engineering service.

Further information

- TPI 176, Lubrication of Rolling Bearings.



Load carrying capacity

Load carrying capacity of split and unsplit plummer block housings

The permissible load on plummer block housings is dependent on:

- the strength of the housing
- the load carrying capacity of the bearing
- the load direction
- the strength of the connecting screws
(in split plummer block housings).

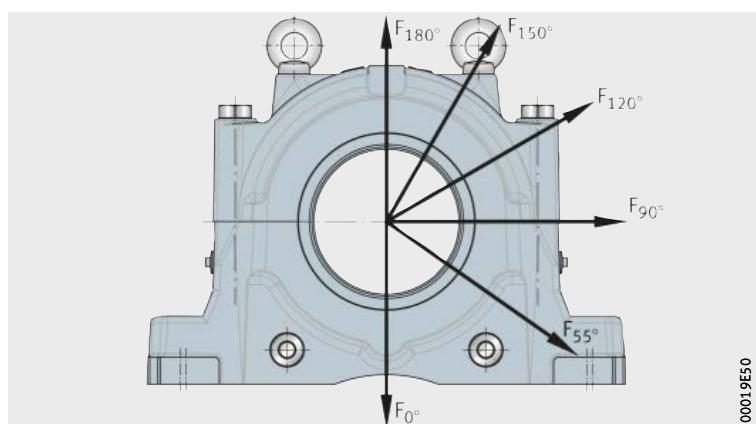
Rupture loads

Guide values are indicated for the housing rupture load of some housing series. Where housings are available in different material variants, it must be noted that the rupture load is dependent on the housing material.

In the case of split plummer block housings, guide values are also indicated for the maximum load carrying capacity of the screws connecting the upper and lower sections of the housing. The guide values are indicated as a function of the load direction, *Figure 1*. The guide values are valid for purely static loading.

The values in the rupture load table apply if the flatness of the mounting surface in accordance with DIN EN ISO 1101 corresponds to tolerance grade IT7 in accordance with DIN EN ISO 286-1 (measured across the diagonal). A precondition for supporting loads is that the housing base surface is completely and rigidly supported.

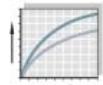
Figure 1
Load directions F
for the guide values
for the housing rupture load and
the maximum load carrying
capacity of the connecting screws



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Load carrying capacity

Permissible load	The permissible load on the housing and the connecting screws and eye bolts must not be exceeded.
Safety factors	When determining the permissible load, safety factors must be applied. For general machine building, a safety factor of 6 is normally applied to the housing rupture load. For split plummer block housings SNS, a safety factor of 5 is sufficient.
Axial load	Where axial load is present or a radial load does not act vertically, it is recommended that the housing should be secured horizontally by means of stops or dowels, see page 43.  If the housing is subjected to axial load, the permissible axial load of the bearing fitted must be taken into consideration. If the bearing is located on the shaft using an adapter sleeve, the axial retaining force of the bearing and adapter sleeve must also be taken into consideration.
Connecting screws	Where split plummer block housings are used, the guide values for the maximum load carrying capacity of the connecting screws must also be observed. Depending on the application, these may be the limiting factor for the load carrying capacity of the housing.
Eye bolts	If the eye bolts provided are used to lift housings or housing components, their permissible load must be observed, see section Eye bolts, page 39.



Mounting and dismounting

Fundamental specifications

The correct mounting of rolling bearings and housings has a decisive influence on the achievable bearing life. Careful attention must therefore be paid to the following guidelines.

In the interests of the user, the applicable legal regulations and other directives relating to environmental protection and occupational safety must be observed.

Cleanliness



Cleanliness is a fundamental precondition for the successful mounting of rolling bearings and housings.

Contamination can shorten the operating life of rolling bearings and must therefore be prevented.

Measures

Measures for ensuring cleanliness are as follows:

- Ensure that the mounting area is clean.
- Clean the mounting surface.
- Clean the housing, seals and cover, paying particular attention to any machining or moulding sand residues.
- Only use volatile solvents and lint-free cloths for cleaning.
- Do not remove rolling bearings and adapter sleeves or withdrawal sleeves from their packaging until immediately before mounting. Do not remove the anti-corrosion protection on these components.

Eye bolts

On many housings, the housing body is provided with one or two eye bolts to DIN 580. These are intended as locating points for mounting and dismounting of the housing. The load carrying capacity of the eye bolts allows lifting of the housing including, in many cases, a bearing fitted in the housing, but without a shaft. Further relevant information is given in the description of the specific housing.

Split plummer block housings KPG and KPGZ have additional eye bolts on the covers. These eye bolts must not be used for lifting of the housing but only for lifting of the covers.



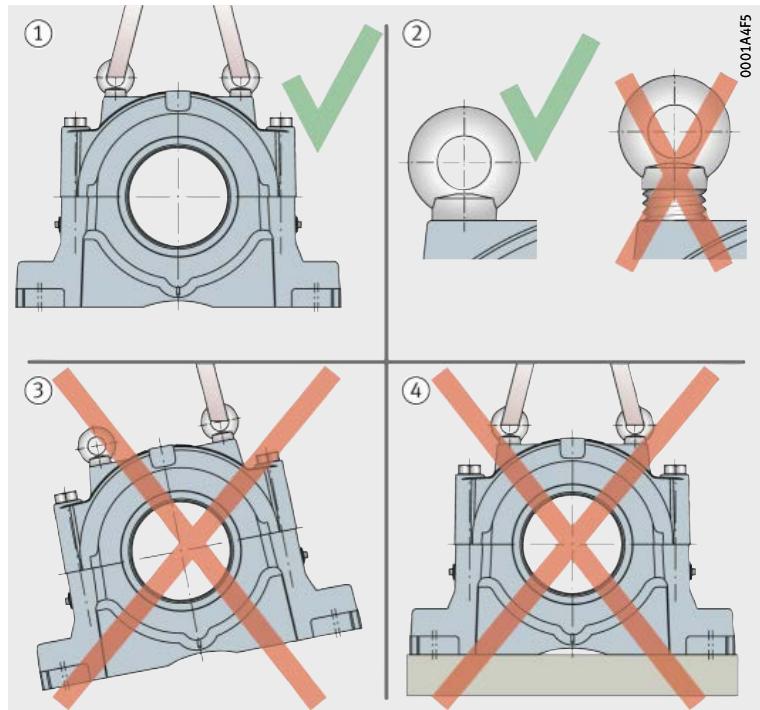
Rupture of the eye bolts due to overload. Severe personal injury or damage to property as a result of the falling housing or housing parts.

Mounting and dismounting

Correct usage of eye bolts
on the housing body

Specifications for the use of eye bolts as locating points, *Figure 1*:

- Eye bolts must always be screwed fully into the housing.
- If several eye bolts are provided on the housing body, all the eye bolts must be used simultaneously as locating points.
- Only use eye bolts for lifting the housing and, if permitted for this housing, the bearing fitted in the housing. The eye bolts must not be subjected to additional load as a result of parts attached to the housing.



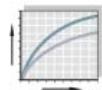
① Correct usage of eye bolts
as locating points

② Screw in eye bolts completely

③ Always use all eye bolts simultaneously

④ Do not apply additional load
as a result of attached parts

Figure 1
Correct usage of eye bolts
on the housing body



Location of housings

The essential preconditions for the secure location of bearing housings are suitable mounting surfaces, the correct selection and use of foot screws as well as, in certain cases, additional horizontal location of the housing.

Surface quality of the mounting surface

The requirements for the surface on which the housing is to be mounted are as follows:

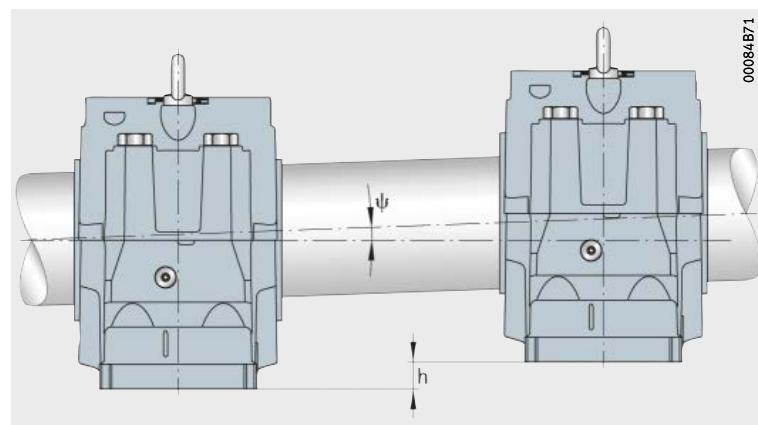
- sufficiently robust to withstand the static and dynamic loads occurring in operation over the long term
- surface roughness: Ramax 12,5
- flatness of the mounting surface in accordance with DIN EN ISO 1101 corresponding to tolerance grade IT7 in accordance with DIN EN ISO 286-1 (measured across the diagonal).
- free from colour.

Level of mounting surfaces

A difference in level between the mounting surfaces of bearing housings will lead to misalignment of the shaft, *Figure 2*.

ψ = misalignment of shaft
 h = difference in level between mounting surfaces

Figure 2
Misalignment of the shaft



The permissible misalignment is dependent on the housing and seal variant. Differences in level must be compensated such that the permissible misalignment is not exceeded. Levelling shims can be used for this purpose.

In addition, it must be ensured that the bearings mounted can compensate the misalignments present.

Mounting and dismounting

Tightening torques for foot screws

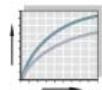
Foot screws are used for screw mounting the housing to the mounting surface. They are not included in the scope of delivery of the housings.

The following table contains tightening torques for metric coarse pitch threads in accordance with DIN 13, DIN 962 and DIN ISO 965-2 as well as head contact dimensions in accordance with DIN EN ISO 4014, DIN EN ISO 4017, DIN EN ISO 4032, DIN EN ISO 4762, DIN 6912, DIN 7984, DIN 7990 and DIN EN ISO 8673.

The maximum tightening torques are valid with 90% utilisation of the yield stress of the screw material 8.8 and a friction factor of 0,14. We recommend that foot screws should be tightened to approx. 70% of these values, see table.

Tightening torques for foot screws with metric thread in accordance with DIN 13, DIN 962 and DIN ISO 965-2

Nominal screw diameter	Maximum tightening torque Nm	Recommended tightening torque Nm
M6	11,3	8
M8	27,3	20
M10	54	35
M12	93	65
M16	230	160
M20	464	325
M24	798	550
M30	1 597	1 100
M36	2 778	1 950
M42	3 991	2 750
M48	6 021	4 250
M56	9 650	6 750
M64	14 416	10 000
M72	21 081	14 500
M80	29 314	20 500
M90	42 525	29 500
M100	59 200	41 000



Horizontal location

In the case of plummer block housings, it may be necessary to supplement the foot screws by additional horizontal location of the housing.

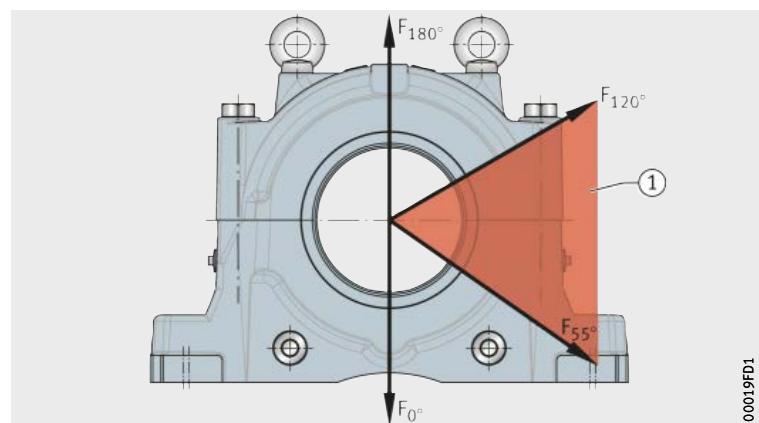
Such horizontal location is necessary if one of the following conditions is fulfilled:

- The load angle is between 55° and 120° , *Figure 3*.
- Axial load is present.

Depending on the housing, the location may be implemented by means of stops in the load direction or pins.

① Load angle range
within which horizontal location
of the housing is necessary

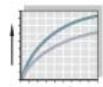
Figure 3
Load directions
on a plummer block housing



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Mounting and dismounting

Location of bearings on the shaft	Complete mounting of a bearing housing also always includes the fitting of the bearing.
Bearing seats on the shaft	<p>The bearing seats on the shaft must be free from impact marks and burrs and must have adequate dimensional and geometrical accuracy.</p> <p>The requirements for dimensional and geometrical accuracy of the bearing seats for a tapered bearing bore and location by means of an adapter sleeve, withdrawal sleeve or adjustment sleeve are as follows:</p> <ul style="list-style-type: none">■ The diameter is at least in the tolerance class h9 \oplus and preferably h8 \oplus.■ The cylindricity in accordance with DIN EN ISO 1101 is within IT5/2. <p>The requirements for dimensional and geometrical accuracy of the bearing seats for a cylindrical bearing bore and direct seating of the bearing on the shaft are dependent on the operating conditions.</p>
Hydraulic method	<p>The mounting and dismounting of large bearings requires high mounting forces and is made easier by using the hydraulic method.</p> <p>The sleeves that can be used for the hydraulic method are as follows:</p> <ul style="list-style-type: none">■ adapter sleeves with oil slots on the tapered outside surface and a pump connector on the thread side. These adapter sleeves have the suffix HG.■ withdrawal sleeves with oil slots on the tapered outside surface and two pump connectors on the thread side offset from each other by 90°. These withdrawal sleeves have the suffix H. <p>For a shaft diameter of or more than 150 mm, we recommend use of the hydraulic method in order to facilitate mounting.</p>
Spherical roller bearings with tapered bore and adapter sleeve	<p>The bearings used frequently in FAG bearing housings are spherical roller bearings with a tapered bore that are located on the shaft using an adapter sleeve.</p> <p>The adapter sleeve is slid onto the shaft first and the bearing is then slid onto the taper of the adapter sleeve. As a result, the radial internal clearance of the bearing is reduced. At the same time, a radial preload occurs between the bearing inner ring, adapter sleeve and shaft, ensuring the rigid seating of the bearing on the shaft.</p> <p>FAG hydraulic nuts can be used to aid the pressing-on operation. The reduction in the radial internal clearance is determined in the case of spherical roller bearings by measurement of the residual clearance using feeler gauges or by measurement of the drive-up distance.</p> <p>The values given for the reduction in the radial internal clearance and the drive-up distance on the taper lead to rigid seating of the bearing on the shaft, see table, page 45.</p>



Reduction in the radial internal clearance and drive-up distance on the taper 1:12

Nominal bearing bore diameter d mm		Reduction in radial internal clearance mm		Drive-up distance on taper 1:12				Minimum radial internal clearance after mounting, control value for		
				Shaft mm		Sleeve mm		Group N mm min.	Group 3 mm min.	Group 4 mm min.
over	incl.	min.	max.	min.	max.	min.	max.			
24	30	0,015	0,02	0,3	0,35	0,3	0,4	0,015	0,02	0,035
30	40	0,02	0,025	0,35	0,4	0,35	0,45	0,015	0,025	0,04
40	50	0,025	0,03	0,4	0,45	0,45	0,5	0,02	0,03	0,05
50	65	0,03	0,04	0,45	0,6	0,5	0,7	0,025	0,035	0,055
65	80	0,04	0,05	0,6	0,75	0,7	0,85	0,025	0,04	0,07
80	100	0,045	0,06	0,7	0,9	0,75	1	0,035	0,05	0,08
100	120	0,05	0,07	0,7	1,1	0,8	1,2	0,05	0,065	0,1
120	140	0,065	0,09	1,1	1,4	1,2	1,5	0,055	0,08	0,11
140	160	0,075	0,1	1,2	1,6	1,3	1,7	0,055	0,09	0,13
160	180	0,08	0,11	1,3	1,7	1,4	1,9	0,06	0,1	0,15
180	200	0,09	0,13	1,4	2	1,5	2,2	0,07	0,1	0,16
200	225	0,1	0,14	1,6	2,2	1,7	2,4	0,08	0,12	0,18
225	250	0,11	0,15	1,7	2,4	1,8	2,6	0,09	0,13	0,2
250	280	0,12	0,17	1,9	2,6	2	2,9	0,1	0,14	0,22
280	315	0,13	0,19	2	3	2,2	3,2	0,11	0,15	0,24
315	355	0,15	0,21	2,4	3,4	2,6	3,6	0,12	0,17	0,26
355	400	0,17	0,23	2,6	3,6	2,9	3,9	0,13	0,19	0,29
400	450	0,2	0,26	3,1	4,1	3,4	4,4	0,13	0,2	0,31
450	500	0,21	0,28	3,3	4,4	3,6	4,8	0,16	0,23	0,35
500	560	0,24	0,32	3,7	5	4,1	5,4	0,17	0,25	0,36
560	630	0,26	0,35	4	5,4	4,4	5,9	0,2	0,29	0,41
630	710	0,3	0,4	4,6	6,2	5,1	6,8	0,21	0,31	0,45
710	800	0,34	0,45	5,3	7	5,8	7,6	0,23	0,35	0,51
800	900	0,37	0,5	5,7	7,8	6,3	8,5	0,27	0,39	0,57
900	1000	0,41	0,55	6,3	8,5	7	9,4	0,3	0,43	0,64
1000	1120	0,45	0,6	6,8	9	7,6	10,2	0,32	0,48	0,7
1120	1250	0,49	0,65	7,4	9,8	8,3	11	0,34	0,54	0,77
1250	1400	0,55	0,72	8,3	10,8	9,3	12,1	0,36	0,59	0,84

Further information

- Detailed information on mounting of bearings:
MH 1, Mounting Handbook.
- Online help and calculation tool for the mounting of bearings:
<http://mountingmanager.schaeffler.com>.
- Products and services for mounting:
Catalogue IS 1, Mounting and Maintenance of Rolling Bearings.
- Questions about the mounting operation:
industrial-services@schaeffler.com.

Mounting and dismounting

Maintenance

Careful maintenance of a housing in conjunction with monitoring of the operating condition of the bearing position makes a significant contribution towards achieving a long operating life and reliable operation.

Regular maintenance must be carried out and the intervals for the various maintenance operations are dependent on the ambient and operating conditions.



Only carry out maintenance operations when the machine is at a standstill.

Take precautions to prevent unintentional startup of the machine.

Regular maintenance work

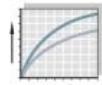
Regular maintenance operations on bearing housings are as follows:

- checking of the alignment of the housing
- retightening of the foot screws and connecting screws.
This should be carried out more frequently at first after commissioning and at longer intervals later
- inspection of the housing for damage. Any indications such as conspicuous noises or unusual escape of grease must also be noted
- relubrication of the seals. Some seals are equipped for this purpose with lubrication nipples. If the ambient air contains high levels of dust, the seals must be relubricated more frequently
- relubrication of the bearings fitted. The grease is introduced into the housing via lubrication nipples and thus travels to the bearing. During relubrication, it must be possible for excess grease to escape via non-contact seals or opened grease outlet holes
- cleaning of the housing to remove baked-on material and other coarse contaminants.



If cleaning is not carried out correctly, contamination or moisture may enter the housing.

In the area of the seals in particular, do not use compressed air, steam cleaners or comparable cleaning methods.



Special solutions

Special solutions for standard housings

FAG standard housings are designed as split and unsplit plummer block housings, as take-up housings and as flanged housings. These housings offer versatile configuration possibilities and thus cover a wide spectrum of applications.

In addition, it is possible to supply other non-standard variants of these housings or to expand the scope of delivery where:

- special technical requirements are present
- the customer has particular specifications that must be fulfilled.

Special solutions and additional services

The special solutions and additional services described below are available by agreement.

Tolerance class of bearing seat

Tolerance class of bearing seat in accordance with customer specification, for example:

- G6
- H6
- F7
- G7
- K7
- N7.

High temperature seals

High temperature seals instead of felt seals, giving expanded operating limits:

- temperature resistance up to +300 °C
- circumferential velocity up to 20 m/s.

Coating colour

Coating colour other than the standard coating of the housing, such as:

- RAL 1015, light ivory
- RAL 3000, flame red
- RAL 5015, sky blue
- RAL 5018, turquoise blue
- RAL 7043, traffic grey B.

Lubrication nipples

Supply of lubrication nipples or parts for closing off relubrication holes, where these deviate from the standard scope of delivery.

Special solutions

Long term packaging	Long term packaging of housings allows a storage time from 3 up to 10 years, depending on the preservation selected and the climatic conditions. The storage regulations must be observed. Long term packaging is available for housings with a mass of 30 kg or heavier.
Acceptance inspection of products	Acceptance inspection of products by the customer can be carried out directly on site. The acceptance documents and inspection certificates can be prepared in accordance with FAG specifications or customer specifications.
Acceptance inspection certificate	Preparation of an acceptance inspection certificate 3.1 in accordance with DIN EN 10204.
Special solutions for plummer block housings SNV	Special solutions available specifically for split plummer block housings SNV include: <ul style="list-style-type: none">■ housing design for oil lubrication■ additional holes for fixing screws and pins.

FAG

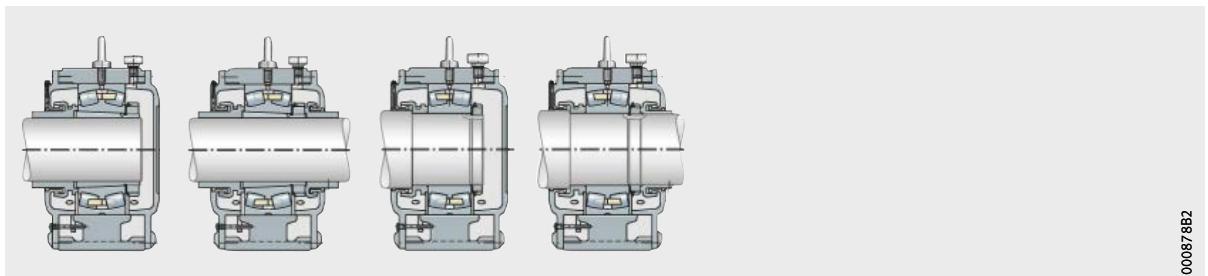
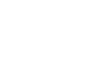
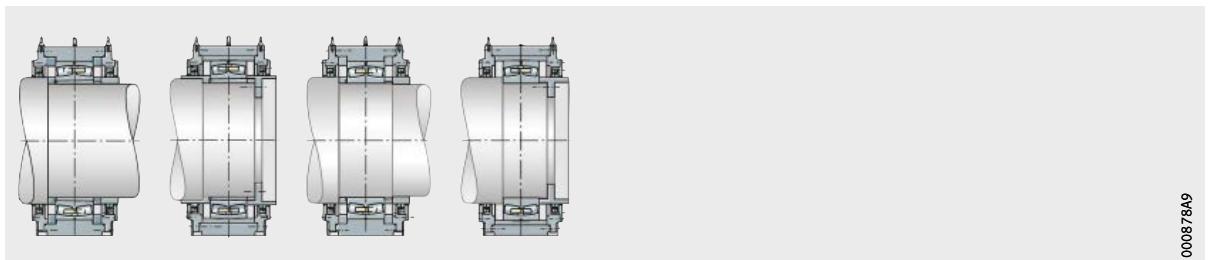
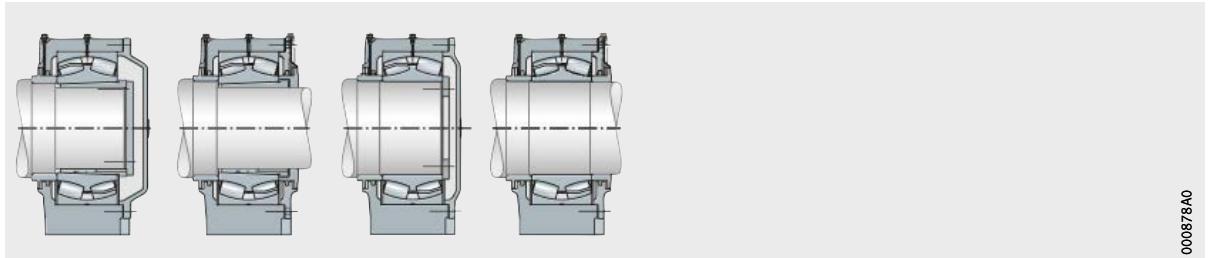
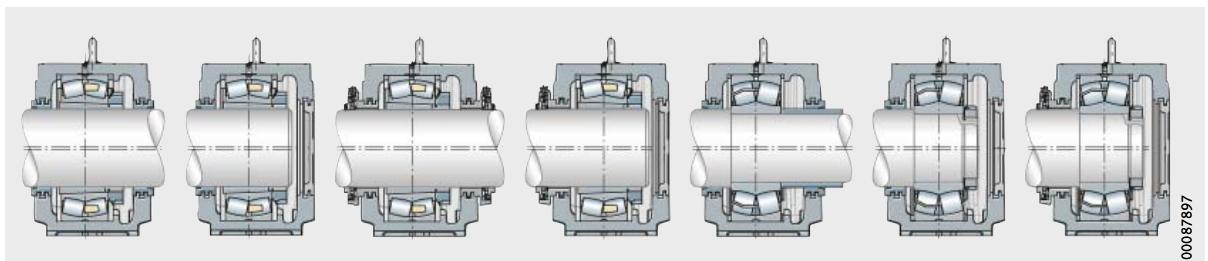
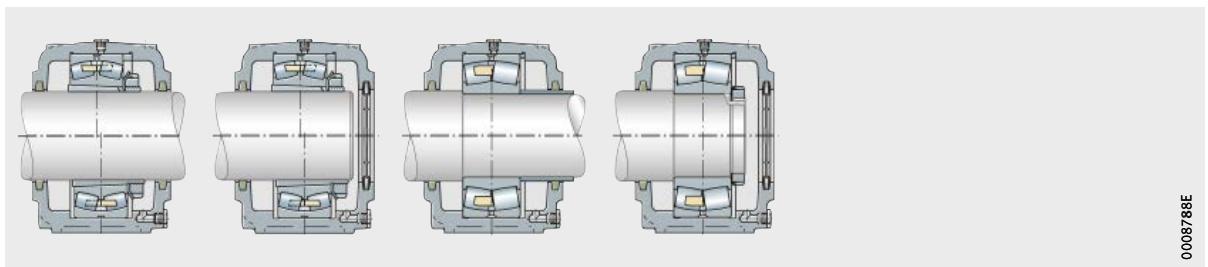
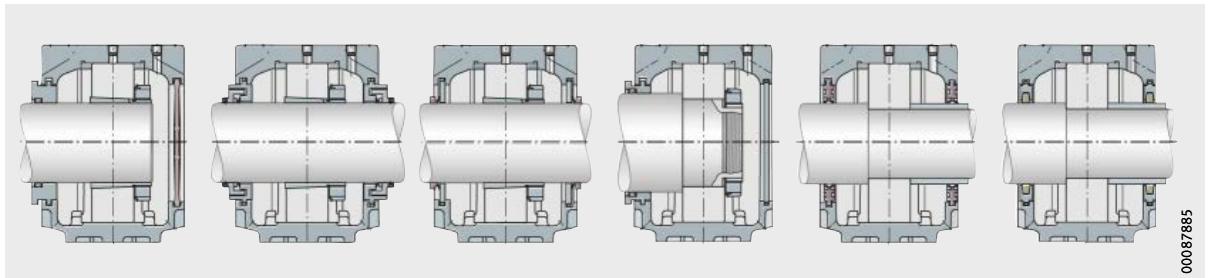


Split plummer block housings

SNV
S30
SNS
RLE
KPG, KPGZ
LOE

Split plummer block housings

Split plummer block housings SNV	.....	52
	Plummer block housings SNV are suitable for a wide range of applications. The main dimensions correspond to ISO 113 and DIN 736 to DIN 739. They can be fitted with spherical roller bearings, barrel roller bearings and self-aligning ball bearings.	
<hr/> Split plummer block housings S30	.....	130
	Plummer block housings S30 are suitable for a wide range of applications and their main dimensions correspond to ISO 113. They can be fitted with spherical roller bearings 230 with a tapered bore and adapter sleeve and with a cylindrical bore.	
<hr/> Split plummer block housings SNS	.....	146
	Plummer block housings SNS are highly robust housings and ideally suitable for aggressive environmental conditions such as those in mining applications. The main dimensions conform to ISO 113. They can be fitted with spherical roller bearings with a tapered bore and adapter sleeve and with a cylindrical bore.	
<hr/> Split plummer block housings RLE	.....	214
	Split plummer block housings RLE were developed specifically for the bearing arrangements of back-up rollers. Suitable bearings are spherical roller bearings 241 with a tapered bore and withdrawal sleeve and with a cylindrical bore.	
<hr/> Split plummer block housings KPG, KPGZ	.....	228
	Split plummer block housings KPG and KPGZ are used in trunnion bearing arrangements on converters for steel production. The housings are matched to spherical roller bearings 249 with a tapered bore and adjustment sleeve (KPG) and with a cylindrical bore (KPGZ).	
<hr/> Split plummer block housings LOE	.....	246
	These housings are designed for oil lubrication and are particularly suitable for bearing arrangements running at high speeds. Where necessary, housings with an integrated cooling coil can be ordered. Spherical roller bearings with a tapered bore and adapter sleeve are fitted.	



FAG



Split plummer block housings SNV

Split plummer block housings SNV

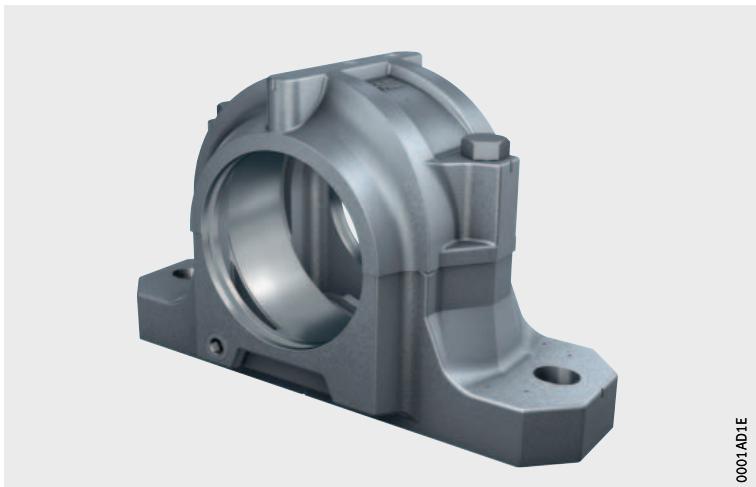
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Product overview Split plummer block housings SNV

Plummer block housings Split

SNV
(SNV052 to SNV200)



0001AD1E

SNV
(SNV215 to SNV340)



0001AD1F

Accessories

Labyrinth seals
Taconite seals

TSV



TCV



0001AD2B

**Double lip seals
V ring seals**

DH



DHV



0001AD20



Felt seals

FSV



0007EEB2

DKV



0001AD6F

DKVT



0001AD23

Locating rings

FRM



0001AD2A

Split plummer block housings SNV

Features	Split FAG plummer block housings SNV and the associated bearings form bearing arrangement units that can be matched, through the appropriate selection of accessories, to a wide range of applications. Applications include agricultural machinery, the paper processing industry, mining, materials processing, the steel industry and power stations.																																		
Modular concept	The housings are designed in accordance with a modular concept. Each housing can be fitted with rolling bearings of various diameter and width series if they have the correct outside diameter for the housing. Depending on their design, the bearings can be located either directly on the shaft or by means of an adapter sleeve. This gives different shaft diameters for the same bearing size. The spacings between the shaft and housing body are compensated by means of appropriately matched seals.																																		
Dimensions and interchangeability	The dimensions of the housings SNV correspond to ISO 113 and DIN 736 to DIN 739. The housings SNV are interchangeable with the existing housings SN and SNE.																																		
Suitable bearings	Split plummer block housings SNV are suitable for fitting with spherical roller bearings, barrel roller bearings and self-aligning ball bearings with a tapered or cylindrical bore as well as deep groove ball bearings, see table. The range of shaft diameters is 20 mm to 160 mm and $\frac{3}{4}$ inch to $5\frac{1}{2}$ inch.																																		
Bearing types and sizes	<table><thead><tr><th>Bearing type</th><th>Size</th></tr></thead><tbody><tr><td>Spherical roller bearings</td><td>21307..-K to 21322..-K</td></tr><tr><td> with tapered bore and adapter sleeve</td><td>22205..-K to 22232..-K</td></tr><tr><td></td><td>22308..-K to 22332..-K</td></tr><tr><td></td><td>23218..-K to 23232..-K</td></tr><tr><td> with cylindrical bore</td><td>21304 to 21322</td></tr><tr><td></td><td>22205 to 22232</td></tr><tr><td></td><td>22308 to 22332</td></tr><tr><td></td><td>23218 to 23232</td></tr><tr><td>Self-aligning ball bearings</td><td>1205-K to 1222-K</td></tr><tr><td> with tapered bore and adapter sleeve</td><td>1305-K to 1320-K</td></tr><tr><td></td><td>2205-K to 2220-K</td></tr><tr><td></td><td>2305-K to 2320-K</td></tr><tr><td> with cylindrical bore</td><td>1205 to 1222</td></tr><tr><td></td><td>1305 to 1320</td></tr><tr><td></td><td>2205 to 2220</td></tr><tr><td></td><td>2304 to 2320</td></tr></tbody></table>	Bearing type	Size	Spherical roller bearings	21307..-K to 21322..-K	with tapered bore and adapter sleeve	22205..-K to 22232..-K		22308..-K to 22332..-K		23218..-K to 23232..-K	with cylindrical bore	21304 to 21322		22205 to 22232		22308 to 22332		23218 to 23232	Self-aligning ball bearings	1205-K to 1222-K	with tapered bore and adapter sleeve	1305-K to 1320-K		2205-K to 2220-K		2305-K to 2320-K	with cylindrical bore	1205 to 1222		1305 to 1320		2205 to 2220		2304 to 2320
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with cylindrical bore	1205 to 1222																																		
	1305 to 1320																																		
	2205 to 2220																																		
	2304 to 2320																																		

Bearing types and sizes (continued)

Bearing type	Size
Barrel roller bearings	20205-K to 20232-K
■ with tapered bore and adapter sleeve	20305-K to 20332-K
■ with cylindrical bore	20205 to 20232
	20305 to 20330
Deep groove ball bearings	6205 to 6232
■ with cylindrical bore	6304 to 6332



Split spherical roller bearings

Unsplit spherical roller bearings with an adapter sleeve can be replaced by split spherical roller bearings. This gives a considerable reduction in the work associated with bearing replacement in numerous applications.

In order to ensure selection of the correct combination of housing and bearing, please contact us.

Further information

Housing materials and anti-corrosion protection

The standard material for the housing bodies is flake graphite cast iron EN-GJL-HB215 in accordance with DIN EN 1561 (suffix L). By agreement, housing bodies made from spheroidal graphite cast iron EN-GJS-400-15 in accordance with DIN EN 1563 (suffix D) are available.

All outer surfaces not machined by chip-forming methods have a universal paint coating (colour RAL 7031, bluish-grey). The coating can be finished using all synthetic resin, polyurethane, acrylic, epoxy resin, chlorinated rubber, nitrocellulose and acid-hardening hammer tone finishes.

Inner and outer surfaces machined by chip-forming methods are provided with anti-corrosion protection that can be easily removed. It is recommended that only volatile solvents and lint-free cloths should be used.

Locating and non-locating bearings

The bearing seats in the housing are machined such that the bearings are movable in the housing and can thus function as non-locating bearings. Locating bearing arrangements can be achieved by the insertion of one locating ring FRM on each side of the bearing outer ring. The bearing is thus seated in the centre of the housing. Locating rings must be ordered separately.

Split plummer block housings SNV

Seals and covers	For sealing of the bearing housings, the standard seals available are the labyrinth seal, the Taconite seal, the double lip seal, the V ring seal and the felt seal. These seals are matched to the rectangular section annular slots on both sides of the housings. They are principally suitable for grease lubrication. The seals must be ordered separately. They are supplied individually. If a continuous shaft is present, two seals must be ordered. Special seals are also available by agreement.
Labyrinth seals TSV	Labyrinth seals TSV give non-contact sealing. They are therefore suitable for high circumferential velocities. The O ring made from fluoro rubber FKM pressed between the labyrinth ring and shaft is suitable for temperatures up to +200 °C. The labyrinth seal allows shaft misalignment of up to 0,5° in both directions. If necessary, the labyrinth can be relubricated. For this purpose, a lubrication hole must be made in the upper housing section for each labyrinth seal. The optimum positions are indicated by cast-in pilot holes.
Taconite seals TCV	Taconite seals TCV are combined seals comprising a labyrinth seal and a V ring. These seals are suitable for extreme operating conditions in relation to contamination and dust. The V ring is made from NBR and is suitable for temperatures up to +100 °C. The Taconite seal allows shaft misalignment of up to 0,5° on both sides.
Double lip seals DH	The seal lips of the double lip seal DH slide on the rotating shaft. The outer seal lip prevents ingress of contamination into the bearing. This effect is supported by the grease inserted between the seal lips. The inner lip prevents lubricant from escaping from the housing. The seal is made from acrylonitrile butadiene rubber NBR and is suitable for circumferential velocities of up to 13 m/s. For continuous operation, a maximum circumferential velocity of 6 m/s is recommended. The seal is suitable for temperatures from -40 °C to +100 °C. It allows shaft misalignment of up to 0,5° in both directions.

The double lip seal DH is a two-piece seal. It can be easily inserted in the annular slots in the housing. The parting joint of the seal halves should be in the same plane as the parting joint of the housing.



The contact running area on the shaft for the seal lips should have a roughness Ra 3,2.

V ring seal DHV

In the case of V ring seals DHV, the seal lip is in axial contact with the sliding surface which is located in the rectangular section annular slot of the housing.



The seal is made from NBR and is suitable, when using grease lubrication, for circumferential velocities of up to 12 m/s.

If circumferential velocities of more than 8 m/s are present, axial location is necessary. The seal allows shaft misalignment of up to 0,5° in both directions.



Felt seals FSV

The seals are suitable for circumferential velocities of up to 5 m/s and, after running-in, up to 15 m/s. They can be used at temperatures up to +100 °C. By agreement, aramide packing is available for high temperatures.

The permissible shaft misalignment is 0,5° in both directions.

Felt seals FSV are particularly suitable for grease lubrication. They comprise an adapter holding the inserted, oil-impregnated felt strip and the adapter is secured against rotation by an O ring in the annular slot in the housing.

Covers DKV

Covers are used in the case of housings closed on one side. The covers fit in the rectangular section annular slots in the housings. Covers DKV are made from plastic and are suitable for long term temperatures of up to +120 °C.

The covers must be ordered separately.

Cover DKVT

Covers DKVT are made from steel, flake graphite cast iron or spheroidal graphite cast iron and are suitable for temperatures of up to +200 °C. They are supplied by agreement.

Characteristics and operating limits

The characteristics and operating limits of the standard seals and covers are compared in an overview, see table, page 60.

Split plummer block housings SNV

Standard seals and covers for plummer block housings SNV

Seals and covers	Labyrinth seal	Taconite seal	
Designation	TSV	TCV	
Material	Steel, FKM	Steel, NBR	
Pieces per pack	1	1	
Suitability for sealing against			
Dust	+	++	
Fine solid particles	+	++	
Coarse solid particles	+	++	
Slivers	++	++	
Spray liquids	-	++	
Operating limits			
Long term temperature	°C °F	-20 to +200 (due to FKM) -4 to +390 (due to FKM)	-30 to +100 (due to NBR) -22 to +210 (due to NBR)
Circumferential velocity	m/s	No restriction	≤ 12
Misalignment	°	≤ 0,5	≤ 0,5
Low friction		++	+
Axial shaft displacement (suitability as non-locating bearing)		+	+
Vertical arrangement		-	-
Suitability for grease relubrication		+	+
Suitability for oil lubrication		-	-
Compatibility with sunlight		++	++
Preconditions			
Tolerance class ¹⁾ of shaft diameter		h8 (h9)	h8 (h9)
Shaft roughness	µm	Ra3,2	Ra3,2

++ Highly suitable

+ Suitable

(+) Suitable with restrictions

- Not suitable

¹⁾ The envelope condition © applies here.

Double lip seal			V ring seal	Felt seal	Cover		
DH	DHV	FSV			DKV	DKVT	
NBR	Steel, NBR	Steel, felt, NBR			Plastic	Steel or cast iron, FKM	
1	1	1			1	1	
++	+	+			+	+	
++	+	-			+	+	
+	-	-			+	+	
+	-	+			+	+	
+	+	-			+	+	
-40 to +100 (due to NBR)		-30 to +100 (due to NBR)		-30 to +100 (due to NBR)		-40 to +120	-20 to +200 (due to FKM)
-40 to +21 (due to NBR)		-22 to +210 (due to NBR)		-22 to +210 (due to NBR)		-40 to +250	-4 to +390 (due to FKM)
max. 13 (duration 6)		max. 12		5 (after running-in 15)		Not applicable	Not applicable
$\leq 0,5$		$\leq 0,5$		$\leq 0,5$		Not applicable	Not applicable
++		++		-		Not applicable	Not applicable
++		(+)		++		Not applicable	Not applicable
+		(+)		-		+	+
++		(+)		-		+	++
(+)		-		-		-	++
+		-		++		(+)	++
h8 (h9)		h8 (h9)		h8 (h9)		Not applicable	Not applicable
Ra3,2		Ra3,2		Ra3,2		Not applicable	Not applicable



Split plummer block housings SNV

Housing configurations

The modular structure of plummer block housings SNV facilitates numerous possible combinations, *Figure 1* and *Figure 2*, page 63. On the basis of the standard components, the following features can be varied in the housing configuration:

- location of bearings with a tapered bore by means of an adapter sleeve on a shaft of constant diameter or of bearings with a cylindrical bore directly on a stepped shaft
- sealing of the housing by means of a labyrinth seal, Taconite seal, double lip seal, V ring seal or felt seal
- continuous shaft or a housing closed on one side
- cover made from plastic (DKV) or cover made from steel or cast iron (DKVT)
- design of the bearing arrangement as a locating bearing arrangement or a non-locating bearing arrangement.
- spherical roller bearing in a split or unsplit design.

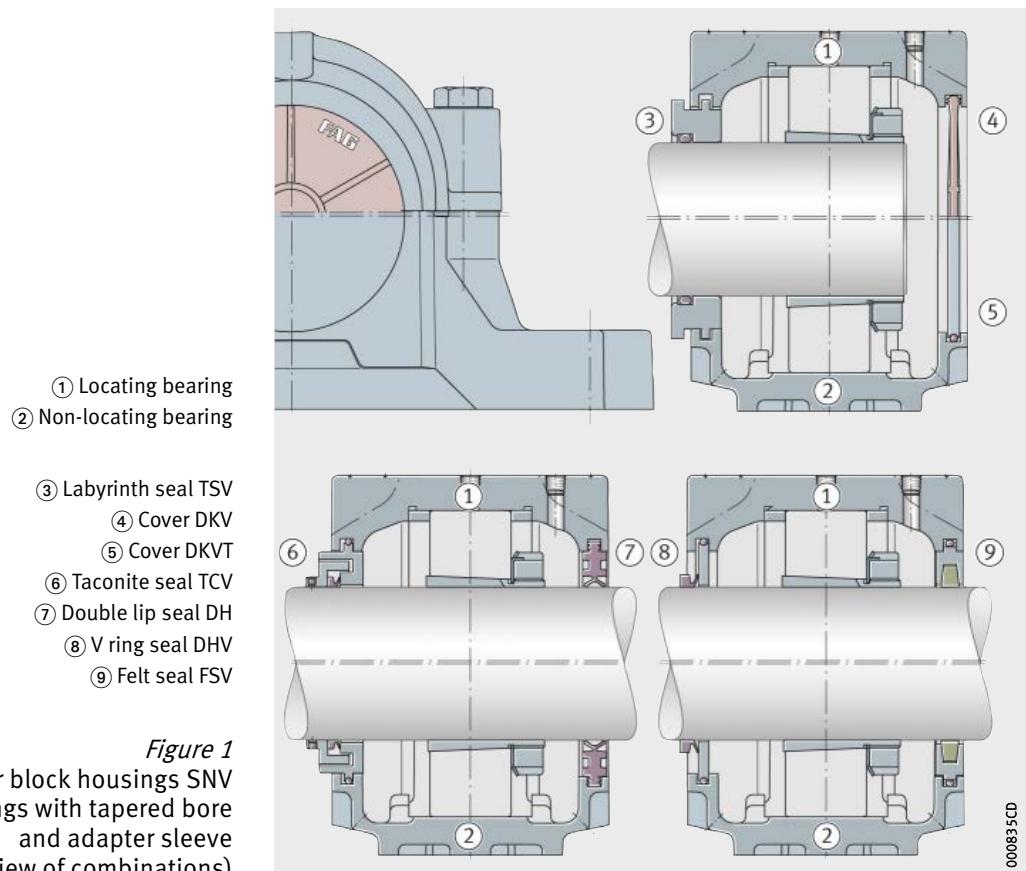
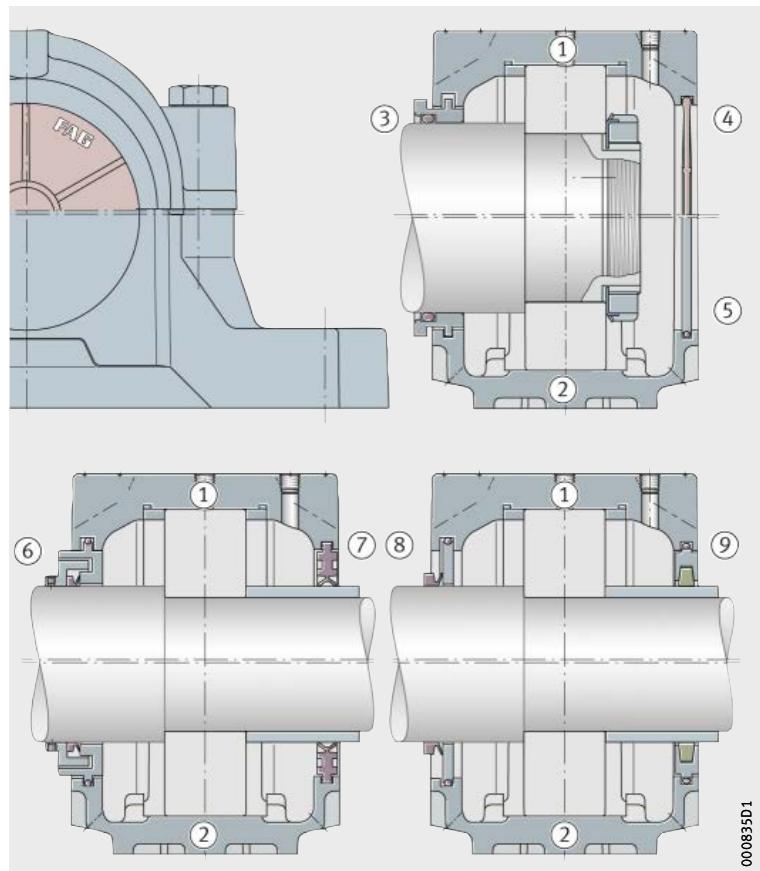


Figure 1
Plummer block housings SNV
for bearings with tapered bore
and adapter sleeve
(overview of combinations)

- ① Locating bearing
 ② Non-locating bearing

- ③ Labyrinth seal TSV
 ④ Cover DKV
 ⑤ Cover DKVT
 ⑥ Taconite seal TCV
 ⑦ Double lip seal DH
 ⑧ V ring seal DHV
 ⑨ Felt seal FSV

Figure 2
 Plummer block housings SNV
 for bearings with cylindrical bore
 (overview of combinations)



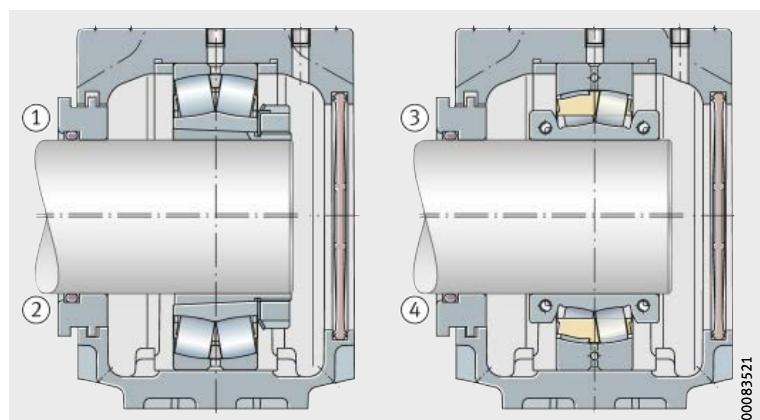
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Mounting of split spherical roller bearings

In the case of plummer block housings SNV, an unsplit spherical roller bearing with a tapered bore and adapter sleeve can be replaced by a split spherical roller bearing, *Figure 3*.

- ① Locating bearing with unsplit bearing
 ② Non-locating bearing with unsplit bearing
 ③ Locating bearing with split bearing
 ④ Non-locating bearing with split bearing

Figure 3
 Plummer block housings SNV
 with split and unsplit
 spherical roller bearing



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Split plummer block housings SNV

Lubrication	Split plummer block housings SNV are principally intended for grease lubrication. The housings can, however, also be supplied in a design for oil lubrication.
Greases	<p>In the case of bearing operating temperatures $< +100 \text{ }^{\circ}\text{C}$, bearing loads $P/C < 0,3$ and a bearing-specific speed parameter $k_f \cdot n \cdot d_M < 700\,000 \text{ min}^{-1} \cdot \text{mm}$ ($k_f = 1$ for self-aligning ball bearings and deep groove ball bearings, $k_f = 8$ to $10,5$ for spherical roller bearings), the most suitable grease is Arcanol MULTITOP, a lithium soap grease of NLGI grade 2 with particularly effective EP additives.</p> <p>Due to their favourable flow behaviour, greases of NLGI grade 2, such as Arcanol MULTITOP and Arcanol MULTI2, are more suitable for relubrication than greases of higher consistency grades.</p>

Grease quantities

For initial greasing, the basic rule is that the bearing should be filled with grease to 100% and the free volume of the housing to 60%. This is the basis for the recommended grease quantities, see table. The free volume is the space that remains in the housing once the bearing, adapter sleeve, shaft and seals have been fitted.

For relubrication, minimum quantities of grease are recommended.

Recommended grease quantities for initial greasing and relubrication

Housing	Grease quantity	
	Initial greasing ≈ g	Relubrication (minimum quantity) ≈ g
SNV052-F	30	5
SNV062-F	45	5
SNV072-F	65	10
SNV080-F	80	10
SNV085-F	105	10
SNV090-F	130	10
SNV100-F	180	15
SNV110-F	210	15
SNV120-F	270	20
SNV125-F	290	20
SNV130-F	330	20
SNV140-F	440	25
SNV150-F	500	30
SNV160-F	650	40
SNV170-F	700	45
SNV180-F	900	55
SNV190-F	950	60
SNV200-F	1 200	70
SNV215-F	1 400	80
SNV230-F	1 600	85
SNV240-F	1 700	90
SNV250-F	2 000	100
SNV260-F	2 000	120
SNV270-F	2 500	130
SNV280-F	2 600	140
SNV290-F	3 000	150
SNV300-F	3 100	160
SNV320-F	3 700	200
SNV340-F	4 500	240

For a speed parameter $n \cdot d_M < 50\,000 \text{ min}^{-1} \cdot \text{mm}$ and a non-contact seal (labyrinth seal TSV), where the grease should also perform a sealing function, the housing and seal cavities should be filled to 100%.

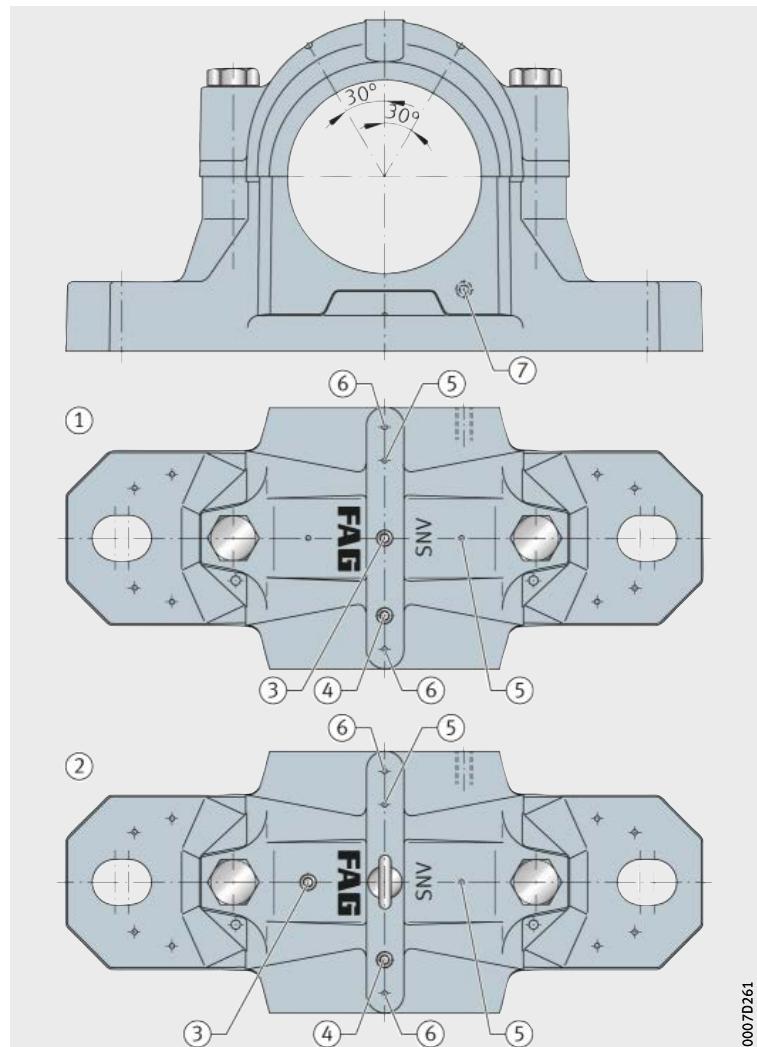


Split plummer block housings SNV

Relubrication

Where relubrication is carried out on bearings with a circumferential lubrication groove, the grease is introduced into the housing via the central lubrication hole, *Figure 4, ③*. In this type of relubrication, the grease acts directly on the bearing raceway.

Where relubrication is carried out on bearings without a circumferential lubrication groove, the grease is introduced laterally into the housing, *Figure 4, ④*. In this case, the housing cavities on the side with the lubrication nipple must be filled completely with grease so that the relubrication grease can act immediately on the bearing.



In both cases, the lubrication hole present (threaded hole M10×1) is prepared by removing the screw plug and permanently inserting one of the lubrication nipples supplied at this point. As an alternative to the lubrication holes already present, lubrication holes may be introduced at other positions as indicated by the cast-in pilot holes, *Figure 4*, page 66, ⑤.



Lubrication holes can be introduced at further marked positions for the relubrication of labyrinth seals, *Figure 4*, page 66, ⑥.



For relubrication, minimum quantities of grease are recommended, see table, page 65. In order to prevent overgreasing, the screw plug in the grease outlet hole in the lower housing section must be removed while relubrication is being carried out, *Figure 4*, page 66, ⑦. This allows superfluous grease to escape. This must be observed in particular when using double lip seals DH. Otherwise, there is a risk that the double lip seal will be pressed out of the housing.



The grease outlet hole must then be closed off again using the screw plug.



If unfavourable environmental conditions are present, there is therefore a risk of contaminant ingress into the housing when the grease outlet holes are opened.

Dimensions

The lubrication and grease outlet holes are closed off using screw plugs to DIN 906.

Lubrication nipples with a dust cap are supplied as follows:

- button head lubrication nipples to DIN 3404-M10×1
- taper type lubrication nipples to DIN 71412-AM10×1.

The size of the grease outlet hole is dependent on the size of the housing, see table.

Dimensions of threaded holes

Housing	Thread for	
	grease outlet hole	relubrication hole
SNV052-F – SNV090-F	M10×1	M10×1
SNV100-F – SNV125-F	M14×1,5	
SNV130-F – SNV340-F	M20×1,5	

Split plummer block housings SNV

Oil lubrication

Split plummer block housings SNV are suitable not only for grease lubrication but also for oil bath lubrication and recirculating oil lubrication. The housings have a large internal cavity with oil collector pockets in the lower section. Due to the housing geometry, it is possible to introduce connection holes for oil inlet, oil outlet, an oil sight glass and a temperature sensor.

Dimensions of connection holes for oil lubrication

The recommended dimensions, see tables and *Figure 5*, page 69, are valid for oil bath lubrication and recirculating oil lubrication.

If recirculating oil lubrication is used, the hole M₂ is intended for the oil inlet function. If oil bath lubrication is used, a venting device can be installed for venting of the housing.

If oil bath lubrication is used, the hole M₄ is intended for the oil sight glass. If recirculating oil lubrication is used, the hole can be used for the oil outlet.

Recommended dimensions of connection holes for oil inlet and oil outlet

Housing	Connection for				
	oil inlet		oil outlet		
	M ₂	n ₃ /2 mm	M ₃	α °	g6 mm
SNV100-F	G1/4	31	M10×1	50	44
SNV110-F	G1/4	33,5	M10×1	50	46
SNV120-F	G1/4	35,5	M10×1	50	49
SNV125-F	G1/4	28,5	M10×1	50	49
SNV130-F	G1/4	38	M10×1	50	51,5
SNV140-F	G1/4	40,5	M10×1	60	57,5
SNV150-F	G1/4	42,5	M10×1	60	60
SNV160-F	G1/4	45	M10×1	60	62,5
SNV170-F	G1/4	46,5	M10×1	60	64
SNV180-F	G1/4	19,5	M10×1	60	69
SNV190-F	G1/4	49,5	M10×1	60	68,5
SNV200-F	G1/4	55,5	M10×1	60	77,5
SNV215-F	G1/4	58,5	M10×1	60	80
SNV230-F	G1/4	61	M10×1	60	83
SNV240-F	G1/4	60	M10×1	60	81,5
SNV250-F	G1/4	65,5	M10×1	60	89
SNV260-F	G1/4	62,5	M10×1	60	84
SNV270-F	G1/4	71,5	M10×1	60	86,5
SNV280-F	G1/4	68	M10×1	60	92,5
SNV290-F	G1/4	76	M10×1	60	102,5
SNV300-F	G1/4	73	M10×1	60	99,5
SNV320-F	G1/4	77	M10×1	60	105,5
SNV340-F	G1/4	81	M10×1	60	109,5

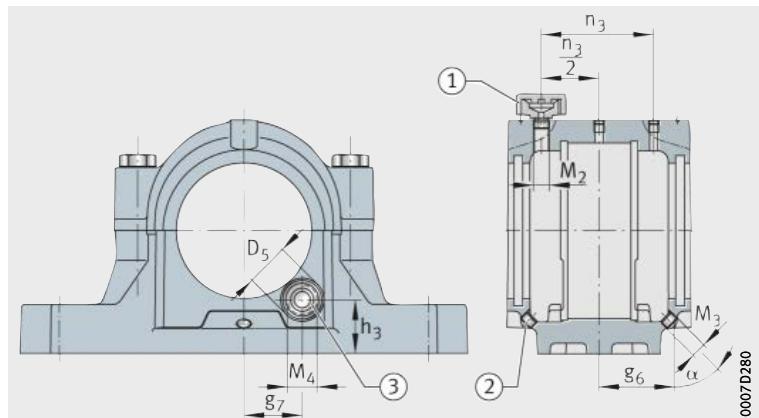
**Recommended dimensions
of connection holes
for oil sight glass**

Housing	Connection for oil sight glass			
	M ₄	g ₇ mm	h ₃	D ₅
SNV100-F	G3/8	33	31	24
SNV110-F	G3/8	35	28	24
SNV120-F	G3/8	38	35	24
SNV125-F	G3/8	44	24	24
SNV130-F	G1/2	43	28,5	30
SNV140-F	G1/2	45	40	30
SNV150-F	G1/2	47	38	30
SNV160-F	G1/2	50	39	30
SNV170-F	G3/4	55	46	36
SNV180-F	G3/4	57	43	36
SNV190-F	G3/4	48	45	36
SNV200-F	G3/4	62	50	36
SNV215-F	G3/4	67	58	36
SNV230-F	G3/4	70	60	36
SNV240-F	G3/4	61	60	36
SNV250-F	G3/4	75	55	36
SNV260-F	G3/4	65	65	36
SNV270-F	G3/4	81	55	36
SNV280-F	G3/4	70	60	36
SNV290-F	G3/4	87	58	36
SNV300-F	G3/4	75	70	36
SNV320-F	G3/4	80	73	36
SNV340-F	G3/4	95	75	36



- ① Venting device
- ② Screw plug
- ③ Oil sight glass

Figure 5
Dimensions of connection holes



Split plummer block housings SNV

Design for oil lubrication

Plummer block housings SNV can be supplied by agreement in a design for oil lubrication. Housings of this design already have the connection holes for oil inlet, oil outlet and an oil sight glass to the recommended dimensions.

The scope of delivery of the design for oil lubrication includes:

- 1 oil sight glass OSGL
- 1 venting device VENT
- 2 screw plugs VSB.

Housings with connection holes according to individual customer specifications can also be supplied once their feasibility has been checked.

Sealing of the shaft

When using the double lip seal DH, a certain amount of oil leakage must be expected, which is unavoidable with seals that are split and not spring-loaded.

In order to limit oil leakage to a small quantity, the shaft in the seal area should have the following characteristics:

- hardness at least 55 HRC
- ground free from spiral marks with a surface roughness of Ra 0,2 µm to Ra 0,5 µm.

A technically oiltight design is only possible with a spring-loaded, unsplit rotary shaft seal.

Sealing of the housing body

The parting line between the upper and lower sections of the housing must be sealed with a thin layer of a commercial sealant (with permanent elasticity). In the case of a housing closed on one side, the base of the groove in which the cover is inserted must be brushed with sealant.

Guidelines on oil bath lubrication



When using oil bath lubrication, a minimum oil level must be ensured. This corresponds to the dimension h3, see table, page 69, and *Figure 5*, page 69.

When using oil bath lubrication, venting of the housing is absolutely necessary. For example, the filling hole can be closed off using a bleed screw.

Designation structure

Designation structure of plummer block housings SNV

The designation structure for split plummer block housings SNV and accessories is shown in the tables and *Figure 6* to *Figure 9*, page 73.

Feature	Code	Description
① Series	SNV	Split plummer block housings SNV
② Bearing outside diameter	340	Outside diameter 340 mm
③ Housing design	F	Threaded holes for grease relubrication and grease outlet
④ Housing material	L	Flake graphite cast iron (standard)
	D	Spheroidal graphite cast iron



Figure 6
Designation structure
of plummer block housings SNV,
example

Split plummer block housings SNV

Designation structure
of standard seals

Feature	Code	Description
① Series	TSV	Labyrinth seal
	TCV	Taconite seal
	DH	Double lip seal
	DHV	V-ring seal
	FSV	Felt seal
② Diameter series of bearing, bearing bore	2	Bearings of diameter series 2, cylindrical bearing bore
	3	Bearings of diameter series 3, cylindrical bearing bore
	5	Bearings of diameter series 2, tapered bearing bore and adapter sleeve
	6	Bearings of diameter series 3, tapered bearing bore and adapter sleeve
③ Bore code of bearing	08	Bore diameter (8 · 5) mm = 40 mm
④ Shaft diameter	No further indications	Standard shaft diameter of dimension series
	X105	Inch size shaft diameter: 1 inch + 5 · 1/16 inch = 15/16 inch

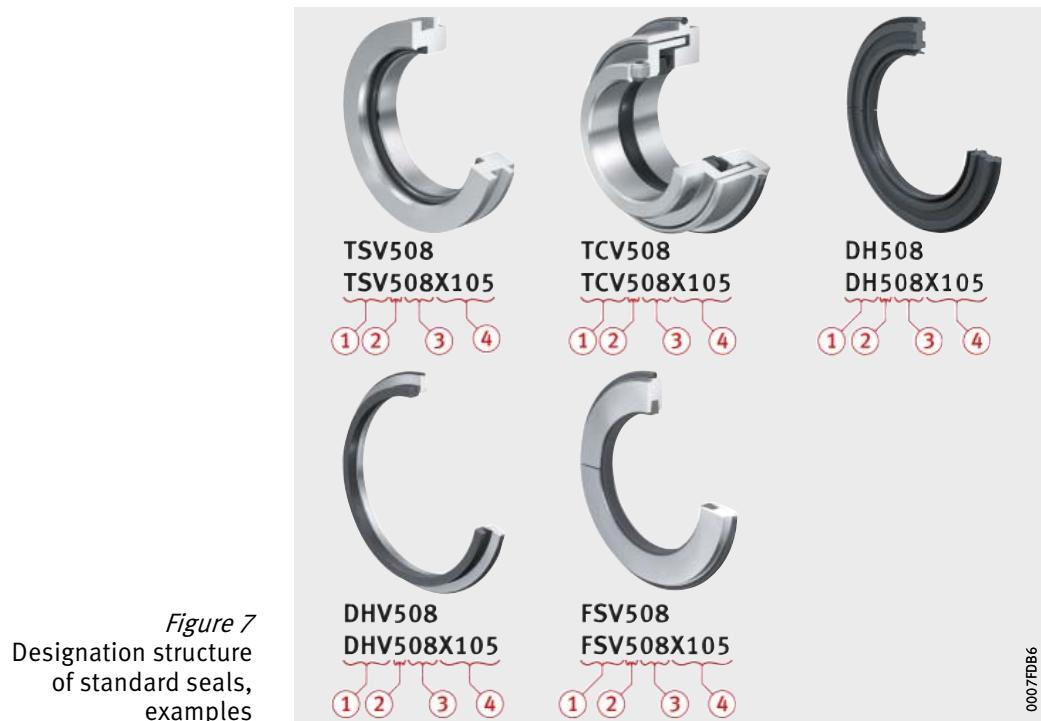


Figure 7
Designation structure
of standard seals,
examples

0007FDB6

Designation structure of covers

Feature		Code	Description
①	Series	DKV	Cover made from plastic
②	Housing size	DKVT	Cover made from steel and FKM
②	Housing size	080	Cover suitable for housing SNV080



Figure 8

Designation structure of covers,
examples

Designation structure of locating rings

Feature		Code	Description
①	Series	FRM	Locating ring
②	Outside diameter	80	Outside diameter 80 mm
③	Width	10,5	Width 10,5 mm



0007FD07

Figure 9

Designation structure
of locating rings,
example

Split plummer block housings SNV

Ordering examples

When a split plummer block housing SNV is ordered, the housing designation only describes the housing body. The other components such as seals, covers or locating rings must be ordered separately in the specific design required. The rolling bearing and, if necessary, the adapter sleeve must also be ordered separately.

Plummer block housings SNV with a bearing fitted give non-locating bearing arrangements. These can be converted into locating bearing arrangements through the additional insertion of locating rings FRM.

The ordering examples show the construction of orders for selected housing combinations and the appropriate bearings. The allocation of housings, bearings and accessories for all housing sizes is shown in the dimension tables.

Example 1 Plummer block housing SNV made from flake graphite cast iron, closed on one side, self-aligning ball bearing 2210-K-TVH-C3 as locating bearing, location by means of an adapter sleeve on a shaft diameter of 45 mm, double lip seal.

Order	1 plummer block housing	SNV090-F-L
	1 self-aligning ball bearing	2210-K-TVH-C3
	1 adapter sleeve	H310
	2 locating rings	FRM90/9
	1 cover	DKV090
	1 double lip seal	DH510

Example 2 Plummer block housing SNV made from flake graphite cast iron, for continuous shaft, split spherical roller bearing 222SM70-TVPA as locating bearing, double lip seal.

Order	1 plummer block housing	SNV140-F-L
	1 split spherical roller bearing	222SM70-TVPA
	2 locating rings	FRM140/12,5
	2 double lip seals	DH516

Example 3 Plummer block housing SNV made from spheroidal graphite cast iron, closed on one side, spherical roller bearing 23218-E1-TVPB as non-locating bearing, felt seal.

Order	1 plummer block housing	SNV160-F-D
	1 spherical roller bearing	23218-E1-TVPB
	1 shaft nut	KM18
	1 tab washer	MB18
	1 cover	DKV160
	1 felt seal	FSV218

Design and safety guidelines

Load carrying capacity



Guide values have been determined for the rupture load of plummer block housings SNV and the maximum load carrying capacity of connecting screws for the upper and lower housing sections, *Figure 10* and table, page 76. The guide values are valid for purely static loading.

The guide values for housing rupture load are valid for the standard housing material flake graphite cast iron (suffix L). For spheroidal graphite cast iron (suffix D) a factor of 1,6 should be applied.

The guide values in the table, page 76, are only valid if the flatness of the mounting surface in accordance with DIN EN ISO 1101 corresponds to the tolerance grade IT8 in accordance with DIN EN ISO 286-1 (measured across the diagonal). A precondition for supporting loads is that the housing base surface is completely and rigidly supported.

When determining the permissible static load, safety factors must be applied:

- safety factor of 6 relative to the housing rupture load
- safety factor of 3 relative to the maximum load carrying capacity of the connecting screws.



The housing must not be subjected to an axial load of more than $\frac{2}{3}$ of the housing rupture load F_{180° .

If the housing is subjected to axial load, the permissible axial load of the bearing fitted must be taken into consideration. If the bearing is located on the shaft using an adapter sleeve, the axial retaining force of the bearing and adapter sleeve must also be taken into consideration.

If the load direction is between 55° and 120° or axial load is present, we recommend that the housings should be secured in the load direction by means of stops or dowels.

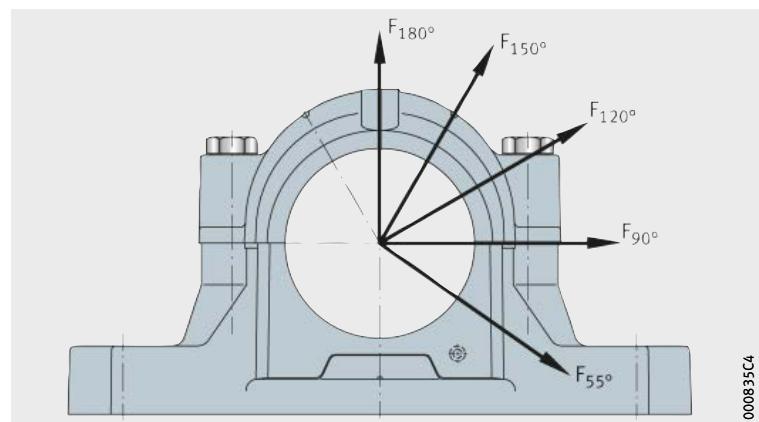


Figure 10
Load directions F
for the guide values
for the housing rupture load and
the maximum load carrying capacity
of the connecting screws

Split plummer block housings SNV

Housing Designation	Housing rupture load in load direction F Housing made from flake graphite cast iron					Connecting screws				
	55° kN	90° kN	120° kN	150° kN	180° kN	Thread to DIN 13 Material 8.8	Tightening torque ¹⁾ Nm	Maximum load carrying capacity of both screws with contact between parting surfaces in load direction		
								120° kN	150° kN	180° kN
SNV052-F-L	160	95	70	60	80	M10	51	60	35	30
SNV062-F-L	170	100	80	65	85	M10	51	60	35	30
SNV072-F-L	190	110	85	80	95	M10	51	60	35	30
SNV080-F-L	210	130	95	85	105	M10	51	60	35	30
SNV085-F-L	225	140	100	90	120	M10	51	60	35	30
SNV090-F-L	265	160	120	105	130	M10	51	60	35	30
SNV100-F-L	280	170	125	120	140	M12	87	80	45	40
SNV110-F-L	300	180	130	125	150	M12	87	80	45	40
SNV120-F-L	335	200	150	130	170	M12	87	80	45	40
SNV125-F-L	335	200	150	130	170	M12	87	80	45	40
SNV130-F-L	400	250	180	150	200	M12	87	80	45	40
SNV140-F-L	425	265	190	170	210	M12	87	80	45	40
SNV150-F-L	475	280	200	180	235	M12	87	80	45	40
SNV160-F-L	530	335	250	210	265	M16	215	180	100	90
SNV170-F-L	560	355	265	225	280	M16	215	180	100	90
SNV180-F-L	630	375	280	250	300	M20	430	260	150	130
SNV190-F-L	630	375	280	250	300	M20	430	260	150	130
SNV200-F-L	670	400	315	280	335	M20	430	260	150	130
SNV215-F-L	800	450	355	315	400	M20	430	260	150	130
SNV230-F-L	900	530	400	355	450	M24	740	360	210	180
SNV240-F-L	1 000	600	450	400	500	M24	740	360	210	180
SNV250-F-L	1 060	630	475	425	530	M24	740	360	210	180
SNV260-F-L	1 180	710	530	475	600	M24	740	360	210	180
SNV270-F-L	1 180	710	530	475	600	M24	740	360	210	180
SNV280-F-L	1 320	750	600	530	630	M24	740	360	210	180
SNV290-F-L	1 400	850	630	560	710	M24	740	360	210	180
SNV300-F-L	1 500	900	670	600	750	M24	740	360	210	180
SNV320-F-L	1 700	1 000	750	670	850	M24	740	360	210	180
SNV340-F-L	1 900	1 120	850	750	950	M30	1 450	640	370	320

Housings made from spheroidal graphite cast iron (suffix D) have a housing rupture load 1,6 times higher than that of housings made from flake graphite cast iron.

- 1) The tightening torques are maximum values with 90% utilisation of the yield stress of the screw material and a friction coefficient of 0,14. We recommend tightening the screws to 70% of these values.

Eye bolts In the case of housings of size SNV215 and larger, the upper housing section has an eye bolt in accordance with DIN 580. This is intended as a locating point for mounting and dismounting of the housing. The load carrying capacity of the eye bolt allows lifting of the housing including a bearing fitted in the housing.



The eye bolt must always be screwed fully into the housing.

The eye bolt must not be subjected to a mass greater than that of the housing together with the bearing fitted in the housing.

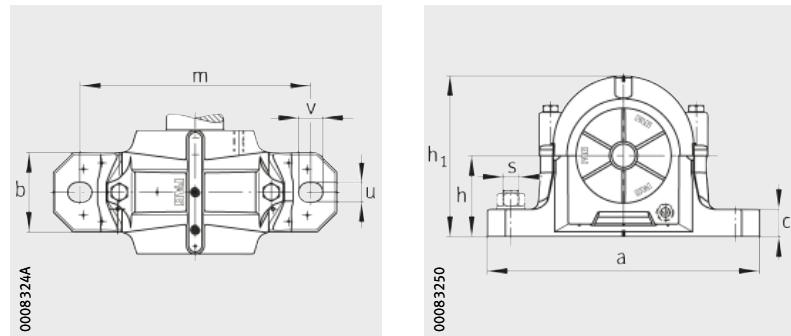


Foot screws Foot screws are used for screw mounting of the housing to the mounting surface. They are not included in the scope of delivery of the housings.
The appropriate screw size for each housing is stated, see dimension tables.
The associated tightening torques are stated for screws with a metric thread in accordance with DIN 13, DIN 962 and DIN ISO 965-2, see table, page 42.

Accuracy The bearing seat in split plummer block housings SNV is machined to the tolerance class G7. The tolerance indicated is valid in the delivered condition, i.e. before the screws connecting the upper and lower sections are loosened.
By agreement, the housings can also be supplied with other tolerance classes for the bearing seat, see section Tolerance class of bearing seat, page 47.

Plummer block housings

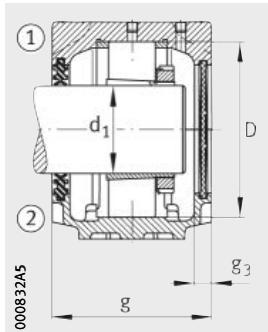
SNV, split
For bearings with tapered bore and adapter sleeve
Metric shaft



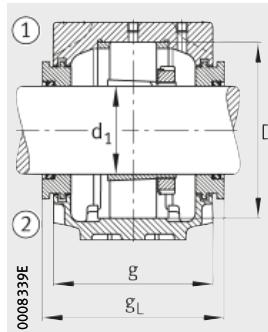
Dimension table · Dimensions in mm

Shaft d ₁ mm	Housing Dimensions											Bearing and accessories			
	h	h ₁	g	b	c	a	m	v	u	s	D	g ₃	Bearing	Adapter sleeve	
										mm	inch				
20	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	1205-K	H205
20	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	1305-K	H305
20	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	20205-K	H205
20	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	2205-K	H305
20	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	22205..-K	H305
20	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	2305-K	H2305
25	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	1206-K	H206
25	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	1306-K	H306
25	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	20206-K	H206
25	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	2206-K	H306
25	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	22206..-K	H306
25	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	2306-K	H2306
30	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	1207-K	H207
30	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	1307-K	H307
30	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	20207-K	H207
30	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	21307..-K	H307
30	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	2207-K	H307
30	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	22207..-K	H307
35	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	2307-K	H2307
35	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	1208-K	H208
35	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	1308-K	H308
35	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	20208-K	H208
35	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	21308..-K	H308
35	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	2208-K	H308
35	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	22208..-K	H308
35	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	22308..-K	H2308
35	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	2308-K	H2308

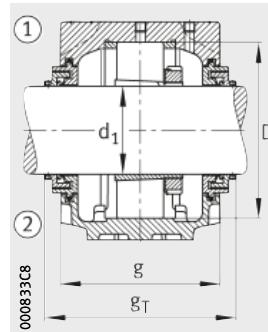
① Locating bearing; ② Non-locating bearing



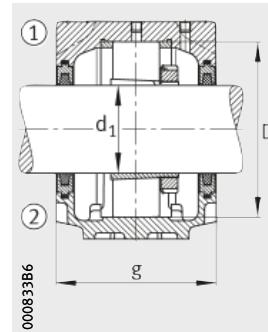
Double lip seal DH
Cover DKV



Labyrinth seal TSV



Taconite seal TCV



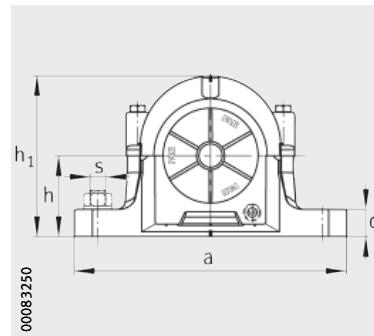
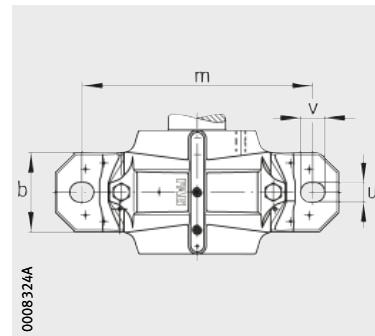
Felt seal FSV



Locating ring	Felt seal	Double lip seal	Housing						Cover	Mass m ≈ kg	Designation			
			Labyrinth seal		Taconite seal		V ring seal							
				g _L mm		g _T mm		g _V mm						
FRM52/6	FSV505	DH505	TSV505	83	—	—	DHV505	76	DKV052	1,3	SNV052-F-L			
FRM62/6,5	FSV605	DH605	TSV605	88	—	—	DHV605	81	DKV062	1,9	SNV062-F-L			
FRM52/6	FSV505	DH505	TSV505	83	—	—	DHV505	76	DKV052	1,3	SNV052-F-L			
FRM52/4,5	FSV505	DH505	TSV505	83	—	—	DHV505	76	DKV052	1,3	SNV052-F-L			
FRM52/4,5	FSV505	DH505	TSV505	83	—	—	DHV505	76	DKV052	1,3	SNV052-F-L			
FRM62/3	FSV605	DH605	TSV605	88	—	—	DHV605	81	DKV062	1,9	SNV062-F-L			
FRM62/7	FSV506	DH506	TSV506	88	—	—	DHV506	81	DKV062	1,9	SNV062-F-L			
FRM72/7	FSV606	DH606	TSV606	93	TCV606	117	DHV606	86	DKV072	2	SNV072-F-L			
FRM62/7	FSV506	DH506	TSV506	88	—	—	DHV506	81	DKV062	1,9	SNV062-F-L			
FRM62/5	FSV506	DH506	TSV506	88	—	—	DHV506	81	DKV062	1,9	SNV062-F-L			
FRM62/5	FSV506	DH506	TSV506	88	—	—	DHV506	81	DKV062	1,9	SNV062-F-L			
FRM72/3	FSV606	DH606	TSV606	93	TCV606	117	DHV606	86	DKV072	2	SNV072-F-L			
FRM72/8	FSV507	DH507	TSV507	93	—	—	DHV507	86	DKV072	2	SNV072-F-L			
FRM80/9	FSV607	DH607	TSV607	98	TCV607	122	DHV607	91	DKV080	2,9	SNV080-F-L			
FRM72/8	FSV507	DH507	TSV507	93	—	—	DHV507	86	DKV072	2	SNV072-F-L			
FRM80/9	FSV607	DH607	TSV607	98	TCV607	122	DHV607	91	DKV080	2,9	SNV080-F-L			
FRM72/5	FSV507	DH507	TSV507	93	—	—	DHV507	86	DKV072	2	SNV072-F-L			
FRM72/5	FSV507	DH507	TSV507	93	—	—	DHV507	86	DKV072	2	SNV072-F-L			
FRM80/4	FSV607	DH607	TSV607	98	TCV607	122	DHV607	91	DKV080	2,9	SNV080-F-L			
FRM80/10,5	FSV508	DH508	TSV508	98	TCV508	122	DHV508	91	DKV080	2,9	SNV080-F-L			
FRM90/9	FSV608	DH608	TSV608	114	TCV608	136	DHV608	104	DKV090	3,1	SNV090-F-L			
FRM80/10,5	FSV508	DH508	TSV508	98	TCV508	122	DHV508	91	DKV080	2,9	SNV080-F-L			
FRM90/9	FSV608	DH608	TSV608	114	TCV608	136	DHV608	104	DKV090	3,1	SNV090-F-L			
FRM80/8	FSV508	DH508	TSV508	98	TCV508	122	DHV508	91	DKV080	2,9	SNV080-F-L			
FRM80/8	FSV508	DH508	TSV508	98	TCV508	122	DHV508	91	DKV080	2,9	SNV080-F-L			
FRM90/4	FSV608	DH608	TSV608	114	TCV608	136	DHV608	104	DKV090	3,1	SNV090-F-L			
FRM90/4	FSV608	DH608	TSV608	114	TCV608	136	DHV608	104	DKV090	3,1	SNV090-F-L			

Plummer block housings

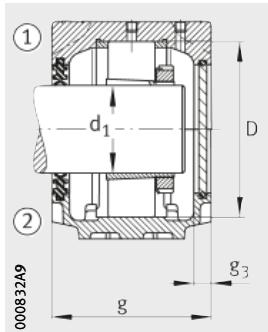
SNV, split
For bearings with tapered bore and adapter sleeve
Metric shaft



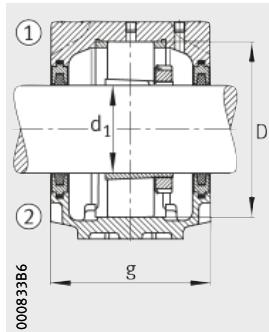
Dimension table (continued) · Dimensions in mm

Shaft d ₁ mm	Housing Dimensions											Bearing and accessories			
	h	h ₁	g	b	c	a	m	v	u	s	D	g ₃	Bearing	Adapter sleeve	
										mm	inch				
40	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	1209-K	H209
40	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	1309-K	H309
40	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	20209-K	H209
40	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	21309..-K	H309
40	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	2209-K	H309
40	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	22209..-K	H309
40	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	22309..-K	H2309
40	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	2309-K	H2309
45	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	1210-K	H210
45	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	1310-K	H310
45	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	20210-K	H210
45	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	21310..-K	H310
45	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	2210-K	H310
45	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	22210..-K	H310
45	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	22310..-K	H2310
45	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	2310-K	H2310
50	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	1211-K	H211
50	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	1311-K	H311
50	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	20211-K	H211
50	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	20311-K	H311
50	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	21311..-K	H311
50	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	2211-K	H311
50	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	22211..-K	H311
50	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	22311..-K	H2311
50	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	2311-K	H2311
55	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	1212-K	H212
55	80	161	120	80	30	280	230	23	18	M16	5/8	130	12,5	1312-K	H312
55	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	20212-K	H212
55	80	161	120	80	30	280	230	23	18	M16	5/8	130	12,5	20312-K	H312
55	80	161	120	80	30	280	230	23	18	M16	5/8	130	12,5	21312..-K	H312
55	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	2212-K	H312
55	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	22212..-K	H312
55	80	161	120	80	30	280	230	23	18	M16	5/8	130	12,5	22312..-K	H2312
55	80	161	120	80	30	280	230	23	18	M16	5/8	130	12,5	2312-K	H2312

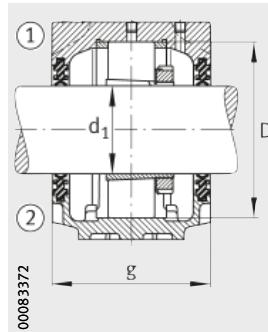
① Locating bearing; ② Non-locating bearing



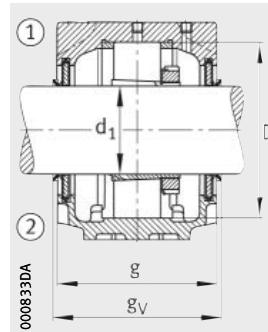
Double lip seal DH
Cover DKVT



Felt seal FSV



Double lip seal DH



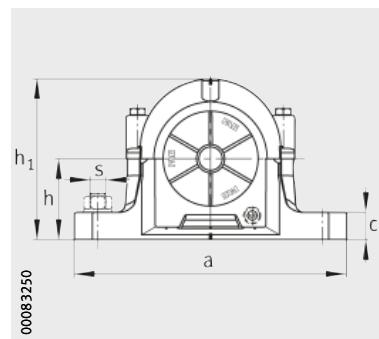
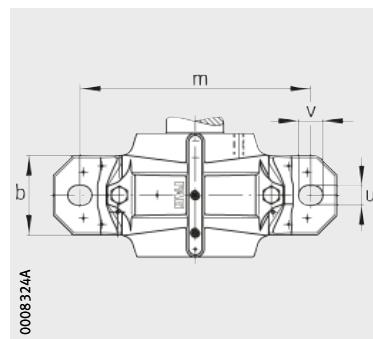
V ring seal DHV



Locating ring	Felt seal	Double lip seal	Housing					Cover	Mass m ≈ kg	Designation	
			Labyrinth seal	Taconite seal	V ring seal						
Quantity 2			g _L mm	g _T mm	g _V mm						
FRM85/6	FSV509	DH509	TSV509	101	TCV509	125	DHV509	93	DKV085	2,8	SNV085-F-L
FRM100/9,5	FSV609	DH609	TSV609	119	TCV609	143	DHV609	111	DKV100	4,3	SNV100-F-L
FRM85/6	FSV509	DH509	TSV509	101	TCV509	125	DHV509	93	DKV085	2,8	SNV085-F-L
FRM100/9,5	FSV609	DH609	TSV609	119	TCV609	143	DHV609	111	DKV100	4,3	SNV100-F-L
FRM85/4	FSV509	DH509	TSV509	101	TCV509	125	DHV509	93	DKV085	2,8	SNV085-F-L
FRM85/4	FSV509	DH509	TSV509	101	TCV509	125	DHV509	93	DKV085	2,8	SNV085-F-L
FRM100/4	FSV609	DH609	TSV609	119	TCV609	143	DHV609	111	DKV100	4,3	SNV100-F-L
FRM100/4	FSV609	DH609	TSV609	119	TCV609	143	DHV609	111	DKV100	4,3	SNV100-F-L
FRM90/10,5	FSV510	DH510	TSV510	114	TCV510	138	DHV510	106	DKV090	3,1	SNV090-F-L
FRM110/10,5	FSV610	DH610	TSV610	124	TCV610	148	DHV610	116	DKV110	4,9	SNV110-F-L
FRM90/10,5	FSV510	DH510	TSV510	114	TCV510	138	DHV510	106	DKV090	3,1	SNV090-F-L
FRM110/10,5	FSV610	DH610	TSV610	124	TCV610	148	DHV610	116	DKV110	4,9	SNV110-F-L
FRM90/9	FSV510	DH510	TSV510	114	TCV510	138	DHV510	106	DKV090	3,1	SNV090-F-L
FRM90/9	FSV510	DH510	TSV510	114	TCV510	138	DHV510	106	DKV090	3,1	SNV090-F-L
FRM110/4	FSV610	DH610	TSV610	124	TCV610	148	DHV610	116	DKV110	4,9	SNV110-F-L
FRM110/4	FSV610	DH610	TSV610	124	TCV610	148	DHV610	116	DKV110	4,9	SNV110-F-L
FRM100/11,5	FSV511	DH511	TSV511	119	TCV511	143	DHV511	111	DKV100	4,3	SNV100-F-L
FRM120/11	FSV611	DH611	TSV611	129	TCV611	153	DHV611	121	DKV120	6,1	SNV120-F-L
FRM100/11,5	FSV511	DH511	TSV511	119	TCV511	143	DHV511	111	DKV100	4,3	SNV100-F-L
FRM120/11	FSV611	DH611	TSV611	129	TCV611	153	DHV611	121	DKV120	6,1	SNV120-F-L
FRM120/11	FSV611	DH611	TSV611	129	TCV611	153	DHV611	121	DKV120	6,1	SNV120-F-L
FRM100/9,5	FSV511	DH511	TSV511	119	TCV511	143	DHV511	111	DKV100	4,3	SNV100-F-L
FRM100/9,5	FSV511	DH511	TSV511	119	TCV511	143	DHV511	111	DKV100	4,3	SNV100-F-L
FRM120/4	FSV611	DH611	TSV611	129	TCV611	153	DHV611	121	DKV120	6,1	SNV120-F-L
FRM120/4	FSV611	DH611	TSV611	129	TCV611	153	DHV611	121	DKV120	6,1	SNV120-F-L
FRM110/13	FSV512	DH512	TSV512	124	TCV512	148	DHV512	116	DKV110	4,9	SNV110-F-L
FRM130/12,5	FSV612	DH612	TSV612	134	TCV612	158	DHV612	126	DKV130	6,8	SNV130-F-L
FRM110/13	FSV512	DH512	TSV512	124	TCV512	148	DHV512	116	DKV110	4,9	SNV110-F-L
FRM130/12,5	FSV612	DH612	TSV612	134	TCV612	158	DHV612	126	DKV130	6,8	SNV130-F-L
FRM130/12,5	FSV612	DH612	TSV612	134	TCV612	158	DHV612	126	DKV130	6,8	SNV130-F-L
FRM110/10	FSV512	DH512	TSV512	124	TCV512	148	DHV512	116	DKV110	4,9	SNV110-F-L
FRM110/10	FSV512	DH512	TSV512	124	TCV512	148	DHV512	116	DKV110	4,9	SNV110-F-L
FRM130/5	FSV612	DH612	TSV612	134	TCV612	158	DHV612	126	DKV130	6,8	SNV130-F-L
FRM130/5	FSV612	DH612	TSV612	134	TCV612	158	DHV612	126	DKV130	6,8	SNV130-F-L

Plummer block housings

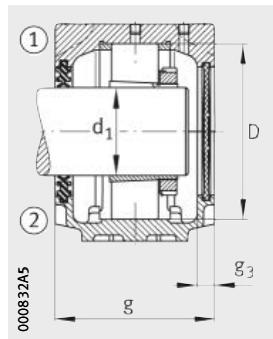
SNV, split
For bearings with tapered bore and adapter sleeve
Metric shaft



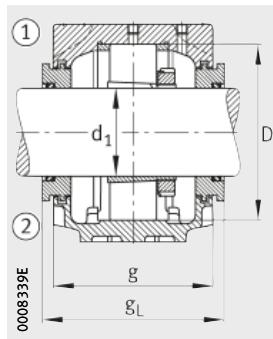
Dimension table (continued) · Dimensions in mm

Shaft d ₁ mm	Housing Dimensions											Bearing and accessories			
	h	h ₁	g	b	c	a	m	v	u	s	D	g ₃	Bearing	Adapter sleeve	
										mm	inch				
60	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	1213-K	H213
60	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	1313-K	H313
60	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	20213-K	H213
60	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	20313-K	H313
60	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	21313..-K	H313
60	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	2213-K	H313
60	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	22213..-K	H313
60	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	22313..-K	H2313
60	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	2313-K	H2313
65	80	161	120	80	30	280	230	23	18	M16	5/8	130	12,5	1215-K	H215
65	100	201	145	100	35	345	290	27	22	M20	3/4	160	15	1315-K	H315
65	80	161	120	80	30	280	230	23	18	M16	5/8	130	12,5	20215-K	H215
65	100	201	145	100	35	345	290	27	22	M20	3/4	160	15	21315..-K	H315
65	80	161	120	80	30	280	230	23	18	M16	5/8	130	12,5	2215-K	H315
65	80	161	120	80	30	280	230	23	18	M16	5/8	130	12,5	22215..-K	H315
65	100	201	145	100	35	345	290	27	22	M20	3/4	160	15	22315..-K	H2315
65	100	201	145	100	35	345	290	27	22	M20	3/4	160	15	2315-K	H2315
70	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	1216-K	H216
70	112	219	150	100	35	345	290	27	22	M20	3/4	170	16	1316-K	H316
70	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	20216-K	H216
70	112	219	150	100	35	345	290	27	22	M20	3/4	170	16	21316..-K	H316
70	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	2216-K	H316
70	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	22216..-K	H316
70	112	219	150	100	35	345	290	27	22	M20	3/4	170	16	22316..-K	H2316
70	112	219	150	100	35	345	290	27	22	M20	3/4	170	16	2316-K	H2316
75	95	189	140	90	32	320	260	27	22	M20	3/4	150	15	1217-K	H217
75	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	1317-K	H317
75	95	189	140	90	32	320	260	27	22	M20	3/4	150	15	20217-K	H217
75	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	21317..-K	H317
75	95	189	140	90	32	320	260	27	22	M20	3/4	150	15	2217-K	H317
75	95	189	140	90	32	320	260	27	22	M20	3/4	150	15	22217..-K	H317
75	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	22317..-K	H2317
75	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	2317-K	H2317

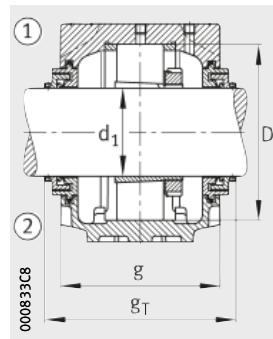
① Locating bearing; ② Non-locating bearing



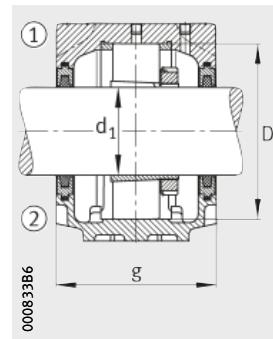
Double lip seal DH
Cover DKV



Labyrinth seal TSV



Taconite seal TCV



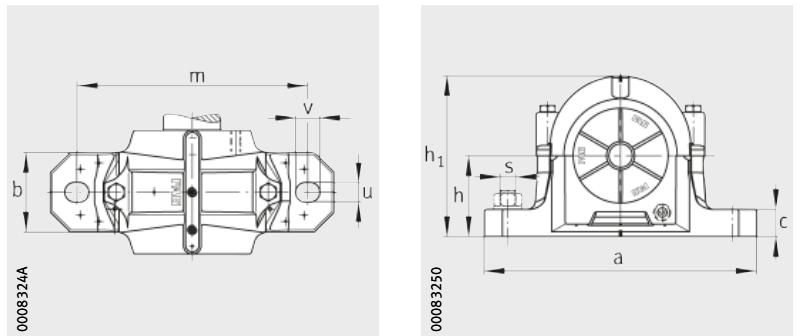
Felt seal FSV



Locating ring	Felt seal	Double lip seal	Housing				Cover	Mass m ≈ kg	Designation
			Labyrinth seal		Taconite seal				
Quantity 2			g _L mm		g _T mm		g _V mm		
FRM120/14	FSV513	DH513	TSV513	129	TCV513	153	DHV513	121	DKV120 6,1 SNV120-F-L
FRM140/12,5	FSV613	DH613	TSV613	150,3	TCV613	172	DHV613	139	DKV140 9,3 SNV140-F-L
FRM120/14	FSV513	DH513	TSV513	129	TCV513	153	DHV513	121	DKV120 6,1 SNV120-F-L
FRM140/12,5	FSV613	DH613	TSV613	150,3	TCV613	172	DHV613	139	DKV140 9,3 SNV140-F-L
FRM140/12,5	FSV613	DH613	TSV613	150,3	TCV613	172	DHV613	139	DKV140 9,3 SNV140-F-L
FRM120/10	FSV513	DH513	TSV513	129	TCV513	153	DHV513	121	DKV120 6,1 SNV120-F-L
FRM120/10	FSV513	DH513	TSV513	129	TCV513	153	DHV513	121	DKV120 6,1 SNV120-F-L
FRM140/5	FSV613	DH613	TSV613	150,3	TCV613	172	DHV613	139	DKV140 9,3 SNV140-F-L
FRM140/5	FSV613	DH613	TSV613	150,3	TCV613	172	DHV613	139	DKV140 9,3 SNV140-F-L
FRM130/15,5	FSV515	DH515	TSV515	134	TCV515	158	DHV515	126	DKV130 6,8 SNV130-F-L
FRM160/14	FSV615	DH615	TSV615	160,3	TCV615	182	DHV615	149	DKV160 12,8 SNV160-F-L
FRM130/15,5	FSV515	DH515	TSV515	134	TCV515	158	DHV515	126	DKV130 6,8 SNV130-F-L
FRM160/14	FSV615	DH615	TSV615	160,3	TCV615	182	DHV615	149	DKV160 12,8 SNV160-F-L
FRM130/12,5	FSV515	DH515	TSV515	134	TCV515	158	DHV515	126	DKV130 6,8 SNV130-F-L
FRM130/12,5	FSV515	DH515	TSV515	134	TCV515	158	DHV515	126	DKV130 6,8 SNV130-F-L
FRM160/5	FSV615	DH615	TSV615	160,3	TCV615	182	DHV615	149	DKV160 12,8 SNV160-F-L
FRM160/5	FSV615	DH615	TSV615	160,3	TCV615	182	DHV615	149	DKV160 12,8 SNV160-F-L
FRM140/16	FSV516	DH516	TSV516	150,3	TCV516	176	DHV516	143	DKV140 9,3 SNV140-F-L
FRM170/14,5	FSV616	DH616	TSV616	167,3	TCV616	193	DHV616	158	DKV170 14,4 SNV170-F-L
FRM140/16	FSV516	DH516	TSV516	150,3	TCV516	176	DHV516	143	DKV140 9,3 SNV140-F-L
FRM170/14,5	FSV616	DH616	TSV616	167,3	TCV616	193	DHV616	158	DKV170 14,4 SNV170-F-L
FRM140/12,5	FSV516	DH516	TSV516	150,3	TCV516	176	DHV516	143	DKV140 9,3 SNV140-F-L
FRM140/12,5	FSV516	DH516	TSV516	150,3	TCV516	176	DHV516	143	DKV140 9,3 SNV140-F-L
FRM170/5	FSV616	DH616	TSV616	167,3	TCV616	193	DHV616	158	DKV170 14,4 SNV170-F-L
FRM170/5	FSV616	DH616	TSV616	167,3	TCV616	193	DHV616	158	DKV170 14,4 SNV170-F-L
FRM150/16,5	FSV517	DH517	TSV517	155,3	TCV517	181	DHV517	148	DKV150 9,9 SNV150-F-L
FRM180/14,5	FSV617	DH617	TSV617	177,3	TCV617	203	DHV617	168	DKV180 17 SNV180-F-L
FRM150/16,5	FSV517	DH517	TSV517	155,3	TCV517	181	DHV517	148	DKV150 9,9 SNV150-F-L
FRM180/14,5	FSV617	DH617	TSV617	177,3	TCV617	203	DHV617	168	DKV180 17 SNV180-F-L
FRM150/12,5	FSV517	DH517	TSV517	155,3	TCV517	181	DHV517	148	DKV150 9,9 SNV150-F-L
FRM150/12,5	FSV517	DH517	TSV517	155,3	TCV517	181	DHV517	148	DKV150 9,9 SNV150-F-L
FRM180/5	FSV617	DH617	TSV617	177,3	TCV617	203	DHV617	168	DKV180 17 SNV180-F-L
FRM180/5	FSV617	DH617	TSV617	177,3	TCV617	203	DHV617	168	DKV180 17 SNV180-F-L

Plummer block housings

SNV, split
For bearings with tapered bore and adapter sleeve
Metric shaft

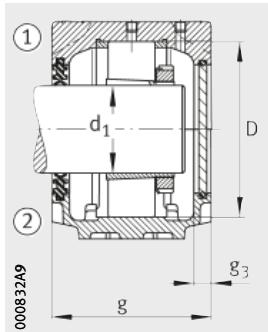


Dimension table (continued) · Dimensions in mm

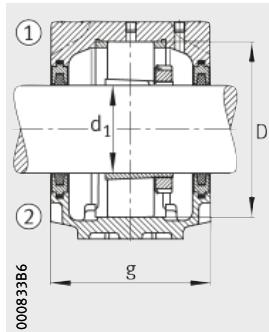
Shaft d ₁ mm	Housing Dimensions												Bearing and accessories		
	h	h ₁	g	b	c	a	m	v	u	s	D	g ₃	Bearing	Adapter sleeve	
										mm	inch				
80	100	201	145	100	35	345	290	27	22	M20	3/4	160	15	1218-K	H218
80	112	229	155	110	40	380	320	32	26	M24	7/8	190	15	1318-K	H318
80	100	201	145	100	35	345	290	27	22	M20	3/4	160	15	20218-K	H218
80	112	229	155	110	40	380	320	32	26	M24	7/8	190	15	20318-K	H318
80	112	229	155	110	40	380	320	32	26	M24	7/8	190	15	21318..-K	H318
80	100	201	145	100	35	345	290	27	22	M20	3/4	160	15	2218-K	H318
80	100	201	145	100	35	345	290	27	22	M20	3/4	160	15	22218..-K	H318
80	112	229	155	110	40	380	320	32	26	M24	7/8	190	15	22318..-K	H2318
80	112	229	155	110	40	380	320	32	26	M24	7/8	190	15	2318-K	H2318
80	100	201	145	100	35	345	290	27	22	M20	3/4	160	15	23218..-K	H2318
85	112	219	150	100	35	345	290	27	22	M20	3/4	170	16	1219-K	H219
85	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	1319-K	H319
85	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	21319..-K	H319
85	112	219	150	100	35	345	290	27	22	M20	3/4	170	16	2219-K	H319
85	112	219	150	100	35	345	290	27	22	M20	3/4	170	16	22219..-K	H319
85	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	22319..-K	H2319
85	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	2319-K	H2319
90	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	1220-K	H220
90	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	1320-K	H320
90	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	20220-K	H220
90	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	20320-K	H320
90	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	21320..-K	H320
90	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	2220-K	H320
90	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	22220..-K	H320
90	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	22320..-K	H2320
90	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	2320-K	H2320
90	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	23220..-K	H2320

① Locating bearing; ② Non-locating bearing

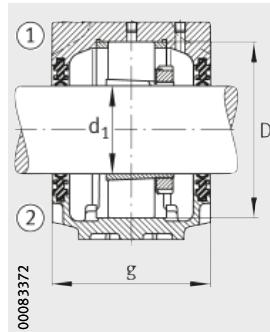
¹⁾ Housing with eye bolt.



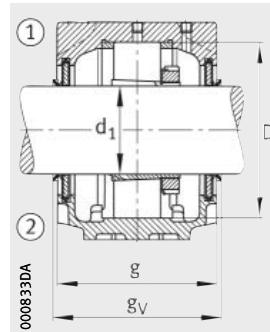
Double lip seal DH
Cover DKVT



Felt seal FSV



Double lip seal DH



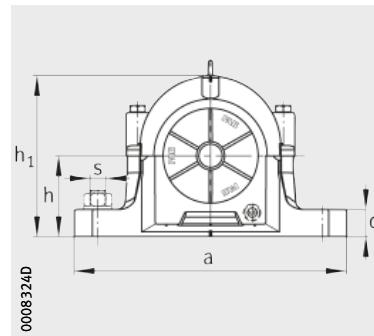
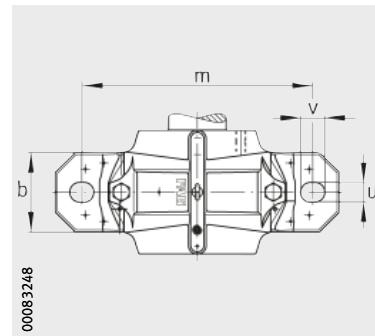
V ring seal DHV



Locating ring	Felt seal	Double lip seal	Housing						Cover	Mass m ≈ kg	Designation			
			Labyrinth seal		Taconite seal		V ring seal							
				g _L mm		g _T mm		g _V mm						
Quantity 2														
FRM160/17,5	FSV518	DH518	TSV518	160,3	TCV518	186	DHV518	153	DKV160	12,8	SNV160-F-L			
FRM190/15,5	FSV518	DH518	TSV518	170,3	TCV518	178	DHV518	163	DKV160	22	SNV190-F-L			
FRM160/17,5	FSV518	DH518	TSV518	160,3	TCV518	186	DHV518	153	DKV160	12,8	SNV160-F-L			
FRM190/15,5	FSV518	DH518	TSV518	170,3	TCV518	178	DHV518	163	DKV160	22	SNV190-F-L			
FRM190/15,5	FSV518	DH518	TSV518	170,3	TCV518	178	DHV518	163	DKV160	22	SNV190-F-L			
FRM160/12,5	FSV518	DH518	TSV518	160,3	TCV518	186	DHV518	153	DKV160	12,8	SNV160-F-L			
FRM160/12,5	FSV518	DH518	TSV518	160,3	TCV518	186	DHV518	153	DKV160	12,8	SNV160-F-L			
FRM190/5	FSV518	DH518	TSV518	170,3	TCV518	178	DHV518	163	DKV160	22	SNV190-F-L			
FRM190/5	FSV518	DH518	TSV518	170,3	TCV518	178	DHV518	163	DKV160	22	SNV190-F-L			
FRM160/6,3	FSV518	DH518	TSV518	160,3	TCV518	186	DHV518	153	DKV160	12,8	SNV160-F-L			
FRM170/18	FSV519	DH519	TSV519	167,3	TCV519	193	DHV519	158	DKV170	14,4	SNV170-F-L			
FRM200/17,5	FSV619	DH619	TSV619	192,3	TCV619	218	DHV619	183	DKV200	21	SNV200-F-L			
FRM200/17,5	FSV619	DH619	TSV619	192,3	TCV619	218	DHV619	183	DKV200	21	SNV200-F-L			
FRM170/12,5	FSV519	DH519	TSV519	167,3	TCV519	193	DHV519	158	DKV170	14,4	SNV170-F-L			
FRM170/12,5	FSV519	DH519	TSV519	167,3	TCV519	193	DHV519	158	DKV170	14,4	SNV170-F-L			
FRM200/6,5	FSV619	DH619	TSV619	192,3	TCV619	218	DHV619	183	DKV200	21	SNV200-F-L			
FRM200/6,5	FSV619	DH619	TSV619	192,3	TCV619	218	DHV619	183	DKV200	21	SNV200-F-L			
FRM180/18	FSV520	DH520	TSV520	177,3	TCV520	203	DHV520	168	DKV180	17	SNV180-F-L			
FRM215/19,5	FSV620	DH620	TSV620	197,3	TCV620	224	DHV620	188	DKV215	24,5	SNV215-F-L¹⁾			
FRM180/18	FSV520	DH520	TSV520	177,3	TCV520	203	DHV520	168	DKV180	17	SNV180-F-L			
FRM215/19,5	FSV620	DH620	TSV620	197,3	TCV620	224	DHV620	188	DKV215	24,5	SNV215-F-L¹⁾			
FRM215/19,5	FSV620	DH620	TSV620	197,3	TCV620	224	DHV620	188	DKV215	24,5	SNV215-F-L¹⁾			
FRM180/12	FSV520	DH520	TSV520	177,3	TCV520	203	DHV520	168	DKV180	17	SNV180-F-L			
FRM180/12	FSV520	DH520	TSV520	177,3	TCV520	203	DHV520	168	DKV180	17	SNV180-F-L			
FRM215/6,5	FSV620	DH620	TSV620	197,3	TCV620	224	DHV620	188	DKV215	24,5	SNV215-F-L¹⁾			
FRM215/6,5	FSV620	DH620	TSV620	197,3	TCV620	224	DHV620	188	DKV215	24,5	SNV215-F-L¹⁾			
FRM180/4,85	FSV520	DH520	TSV520	177,3	TCV520	203	DHV520	168	DKV180	17	SNV180-F-L			

Plummer block housings

SNV, split
For bearings with tapered bore and adapter sleeve
Metric shaft

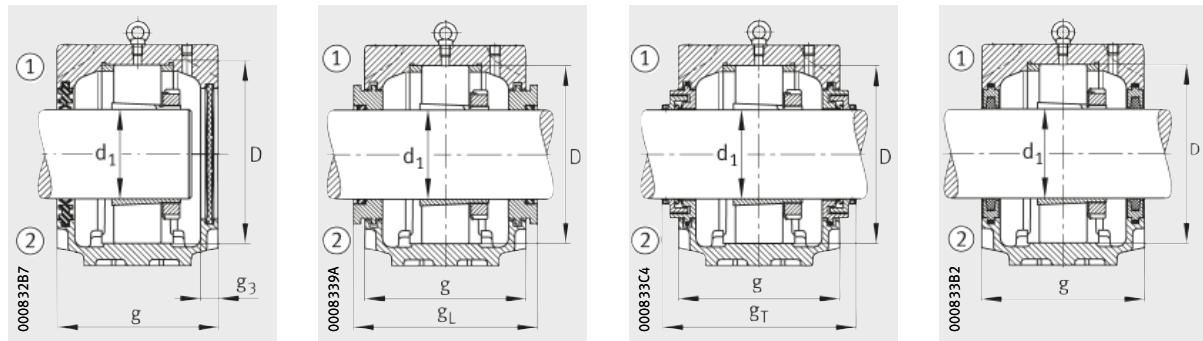


Dimension table (continued) · Dimensions in mm

Shaft d ₁ mm	Housing Dimensions											D	g ₃	Bearing and accessories	
	h	h ₁	g	b	c	a	m	v	u	s	mm			Bearing	Adapter sleeve
100	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	1222-K	H222
100	150	298	185	130	50	450	390	35	28	M24	1	240	18	1322-K	H322
100	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	20222-K	H222
100	150	298	185	130	50	450	390	35	28	M24	1	240	18	21322..-K	H322
100	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	22222..-K	H322
100	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	22222-K	H322
100	150	298	185	130	50	450	390	35	28	M24	1	240	18	22322..-K	H2322
100	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	23222..-K	H2322
100	150	298	185	130	50	450	390	35	28	M24	1	240	18	23222-K	H2322
110	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	20224-K	H3024
110	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	22224..-K	H3124
110	160	321	190	160	60	530	450	42	35	M30	1 1/4	260	18	22324..-K	H2324
110	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	23224..-K	H2324
115	150	291	190	130	50	445	380	35	28	M24	1	230	18	20226-K	H3026
115	150	291	190	130	50	445	380	35	28	M24	1	230	18	22226..-K	H3126
115	170	344	205	160	60	550	470	42	35	M30	1 1/4	280	18	22326..-K	H2326
115	150	291	190	130	50	445	380	35	28	M24	1	230	18	23226..-K	H2326
125	150	304	200	150	50	500	420	42	35	M30	1 1/4	250	18	20228-K	H3028
125	150	304	200	150	50	500	420	42	35	M30	1 1/4	250	18	22228..-K	H3128
125	180	366	215	170	65	620	520	42	35	M30	1 1/4	300	18	22328..-K	H2328
125	150	304	200	150	50	500	420	42	35	M30	1 1/4	250	18	23228..-K	H2328
135	160	328	215	160	60	530	450	42	35	M30	1 1/4	270	18	20230-K	H3030
135	160	328	215	160	60	530	450	42	35	M30	1 1/4	270	18	22230..-K	H3130
135	190	386	225	180	65	650	560	42	35	M30	1 1/4	320	18	22330..-K	H2330
135	160	328	215	160	60	530	450	42	35	M30	1 1/4	270	18	23230..-K	H2330
140	170	351	225	160	60	550	470	42	35	M30	1 1/4	290	18	20232-K	H3032(-HG)
140	170	351	225	160	60	550	470	42	35	M30	1 1/4	290	18	22232..-K	H3132(-HG)
140	200	406	235	190	70	680	580	50	42	M36	1 1/2	340	18	22332-K	H2332(-HG)
140	170	351	225	160	60	550	470	42	35	M30	1 1/4	290	18	23232..-K	H2332(-HG)

① Locating bearing; ② Non-locating bearing

1) Housing without eye bolt.

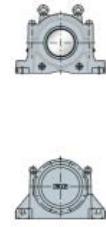


Double lip seal DH
Cover DKV

Labyrinth seal TSV

Taconite seal TCV

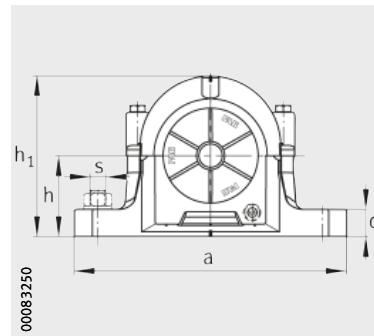
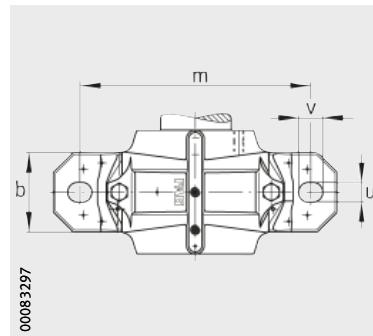
Felt seal FSV



Locating ring	Felt seal	Double lip seal	Housing				Cover	Mass m ≈ kg	Designation
			Labyrinth seal	Taconite seal	V ring seal				
Quantity 2			gL mm	gT mm	gV mm				
FRM200/21	FSV522	DH522	TSV522	195,3	TCV522	218	DHV522	183	DKV200 21 S NV200-F-L¹⁾
FRM240/20	FSV522	DH522	TSV522	203,3	TCV522	226	DHV522	191	DKV200 32 S NV240-F-L
FRM200/21	FSV522	DH522	TSV522	195,3	TCV522	218	DHV522	183	DKV200 21 S NV200-F-L¹⁾
FRM240/20	FSV522	DH522	TSV522	203,3	TCV522	226	DHV522	191	DKV200 32 S NV240-F-L
FRM200/13,5	FSV522	DH522	TSV522	195,3	TCV522	218	DHV522	183	DKV200 21 S NV200-F-L¹⁾
FRM200/13,5	FSV522	DH522	TSV522	195,3	TCV522	218	DHV522	183	DKV200 21 S NV200-F-L¹⁾
FRM240/5	FSV522	DH522	TSV522	203,3	TCV522	226	DHV522	191	DKV200 32 S NV240-F-L
FRM200/5,1	FSV522	DH522	TSV522	195,3	TCV522	218	DHV522	183	DKV200 21 S NV200-F-L¹⁾
FRM240/5	FSV522	DH522	TSV522	203,3	TCV522	226	DHV522	191	DKV200 32 S NV240-F-L
FRM215/23	FSV524	DH524	TSV524	200,3	TCV524	227	DHV524	191	DKV215 24,5 S NV215-F-L
FRM215/14	FSV524	DH524	TSV524	200,3	TCV524	227	DHV524	191	DKV215 24,5 S NV215-F-L
FRM260/5	FSV524	DH524	TSV524	208,3	TCV524	235	DHV524	199	DKV215 48 S NV260-F-L
FRM215/5	FSV524	DH524	TSV524	200,3	TCV524	227	DHV524	191	DKV215 24,5 S NV215-F-L
FRM230/25	FSV526	DH526	TSV526	208,3	TCV526	235	DHV526	199	DKV230 30 S NV230-F-L
FRM230/13	FSV526	DH526	TSV526	208,3	TCV526	235	DHV526	199	DKV230 30 S NV230-F-L
FRM280/5	FSV526	DH526	TSV526	223,3	TCV526	250	DHV526	214	DKV230 55 S NV280-F-L
FRM230/5	FSV526	DH526	TSV526	208,3	TCV526	235	DHV526	199	DKV230 30 S NV230-F-L
FRM250/28	FSV528	DH528	TSV528	218,3	TCV528	245	DHV528	209	DKV250 38 S NV250-F-L
FRM250/15	FSV528	DH528	TSV528	218,3	TCV528	245	DHV528	209	DKV250 38 S NV250-F-L
FRM300/5	FSV528	DH528	TSV528	233,3	TCV528	260	DHV528	224	DKV250 70 S NV300-F-L
FRM250/5	FSV528	DH528	TSV528	218,3	TCV528	245	DHV528	209	DKV250 38 S NV250-F-L
FRM270/30,5	FSV530	DH530	TSV530	233,3	TCV530	260	DHV530	224	DKV270 45,5 S NV270-F-L
FRM270/16,5	FSV530	DH530	TSV530	233,3	TCV530	260	DHV530	224	DKV270 45,5 S NV270-F-L
FRM320/5	FSV530	DH530	TSV530	243,3	TCV530	270	DHV530	234	DKV270 95 S NV320-F-L
FRM270/5	FSV530	DH530	TSV530	233,3	TCV530	260	DHV530	224	DKV270 45,5 S NV270-F-L
FRM290/33	FSV532	DH532	TSV532	243,3	TCV532	270	DHV532	234	DKV290 53,8 S NV290-F-L
FRM290/17	FSV532	DH532	TSV532	243,3	TCV532	270	DHV532	234	DKV290 53,8 S NV290-F-L
FRM340/5	FSV532	DH532	TSV532	253,3	TCV532	298	DHV532	244	DKV290 115 S NV340-F-L
FRM290/5	FSV532	DH532	TSV532	243,3	TCV532	270	DHV532	234	DKV290 53,8 S NV290-F-L

Plummer block housings

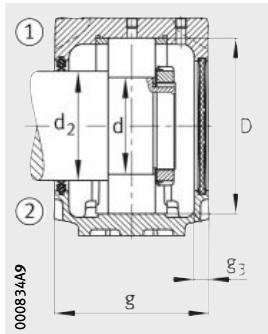
SNV, split
For bearings
with cylindrical bore
Metric shaft



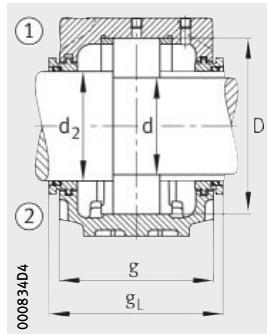
Dimension table · Dimensions in mm

Shaft		Housing Dimensions											Bearing and accessories			
d	d ₂	h	h ₁	g	b	c	a	m	v	u	s	D	g ₃	Bearing	Lock-nut	Tab washer
											mm	inch				
20	25	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	1304	KM4 MB4
20	25	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	2304	KM4 MB4
20	25	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	20304	KM4 MB4
20	25	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	21304	KM4 MB4
25	30	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	1205	KM5 MB5
25	30	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	1305	KM5 MB5
25	30	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	2205	KM5 MB5
25	30	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	2305	KM5 MB5
25	30	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	20205	KM5 MB5
25	30	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	20305	KM5 MB5
25	30	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	21305	KM5 MB5
25	30	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	22205	KM5 MB5
30	35	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	1206	KM6 MB6
30	35	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	1306	KM6 MB6
30	35	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	2206	KM6 MB6
30	35	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	2306	KM6 MB6
30	35	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	20206	KM6 MB6
30	35	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	20306	KM6 MB6
30	35	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	21306	KM6 MB6
30	35	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	22206	KM6 MB6
35	45	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	1207	KM7 MB7
35	45	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	1307	KM7 MB7
35	45	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	2207	KM7 MB7
35	45	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	2307	KM7 MB7
35	45	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	20207	KM7 MB7
35	45	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	20307	KM7 MB7
35	45	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	21307	KM7 MB7
35	45	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	22207	KM7 MB7

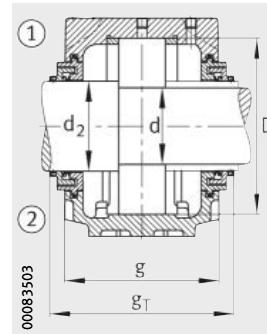
① Locating bearing; ② Non-locating bearing



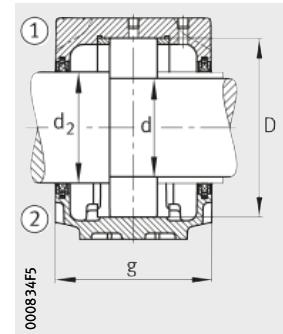
Double lip seal DH
Cover DKV



Labyrinth seal TSV



Taconite seal TCV



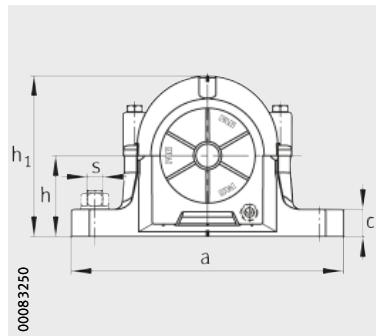
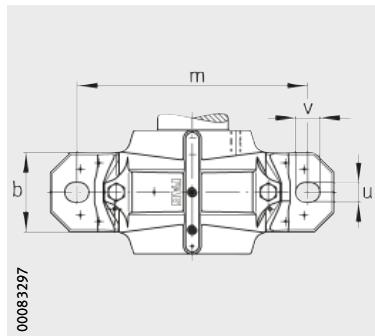
Felt seal FSV



Locating ring	Felt seal	Double lip seal	Housing					Cover	Mass $m \approx kg$	Designation	
			Labyrinth seal		V ring seal		Taconite seal				
				g_L mm		g_V mm	g_T mm				
FRM52/6	-	DH304	TSV304	95	DHV304	76	-	-	DKV052	1,3	SNV052-F-L
FRM52/3	-	DH304	TSV304	95	DHV304	76	-	-	DKV052	1,3	SNV052-F-L
FRM52/6	-	DH304	TSV304	95	DHV304	76	-	-	DKV052	1,3	SNV052-F-L
FRM52/6	-	DH304	TSV304	95	DHV304	76	-	-	DKV052	1,3	SNV052-F-L
FRM52/6	-	DH205	TSV205	95	-	-	-	-	DKV052	1,3	SNV052-F-L
FRM62/6,5	FSV305	DH305	TSV305	100	DHV305	81	-	-	DKV062	1,9	SNV062-F-L
FRM52/4,5	-	DH205	TSV205	95	-	-	-	-	DKV052	1,3	SNV052-F-L
FRM62/3	FSV305	DH305	TSV305	100	DHV305	81	-	-	DKV062	1,9	SNV062-F-L
FRM52/6	-	DH205	TSV205	95	-	-	-	-	DKV052	1,3	SNV052-F-L
FRM62/6,5	FSV305	DH305	TSV305	100	DHV305	81	-	-	DKV062	1,9	SNV062-F-L
FRM62/6,5	FSV305	DH305	TSV305	100	DHV305	81	-	-	DKV062	1,9	SNV062-F-L
FRM52/4,5	-	DH205	TSV205	95	-	-	-	-	DKV052	1,3	SNV052-F-L
FRM62/7	-	DH206	TSV206	100	-	-	-	-	DKV062	1,9	SNV062-F-L
FRM72/7	FSV306	DH306	TSV306	93	DHV306	86	-	-	DKV072	2	SNV072-F-L
FRM62/5	-	DH206	TSV206	100	-	-	-	-	DKV062	1,9	SNV062-F-L
FRM72/3	FSV306	DH306	TSV306	93	DHV306	86	-	-	DKV072	2	SNV072-F-L
FRM62/7	-	DH206	TSV206	100	-	-	-	-	DKV062	1,9	SNV062-F-L
FRM72/7	FSV306	DH306	TSV306	93	DHV306	86	-	-	DKV072	2	SNV072-F-L
FRM72/7	FSV306	DH306	TSV306	93	DHV306	86	-	-	DKV072	2	SNV072-F-L
FRM62/5	-	DH206	TSV206	100	-	-	-	-	DKV062	1,9	SNV062-F-L
FRM72/8	-	DH207	TSV207	107	-	-	-	-	DKV072	2	SNV072-F-L
FRM80/9	FSV307	DH307	TSV307	98	DHV307	93	-	-	DKV080	2,9	SNV080-F-L
FRM72/5	-	DH207	TSV207	107	-	-	-	-	DKV072	2	SNV072-F-L
FRM80/4	FSV307	DH307	TSV307	98	DHV307	93	-	-	DKV080	2,9	SNV080-F-L
FRM72/8	-	DH207	TSV207	107	-	-	-	-	DKV072	2	SNV072-F-L
FRM80/9	FSV307	DH307	TSV307	98	DHV307	93	-	-	DKV080	2,9	SNV080-F-L
FRM80/9	FSV307	DH307	TSV307	98	DHV307	93	-	-	DKV080	2,9	SNV080-F-L
FRM72/5	-	DH207	TSV207	107	-	-	-	-	DKV072	2	SNV072-F-L

Plummer block housings

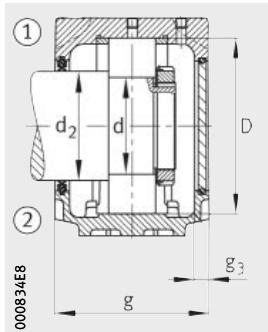
SNV, split
For bearings
with cylindrical bore
Metric shaft



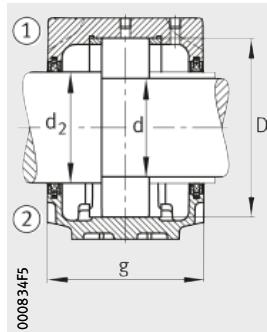
Dimension table (continued) · Dimensions in mm

Shaft		Housing Dimensions												Bearing and accessories		
d	d ₂	h	h ₁	g	b	c	a	m	v	u	s	D	g ₃	Bearing	Lock-nut	Tab washer
												mm	inch			
40	50	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	1208	KM8
40	50	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	1308	KM8
40	50	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	2208	KM8
40	50	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	2308	KM8
40	50	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	20208	KM8
40	50	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	20308	KM8
40	50	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	21308	KM8
40	50	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	22208	KM8
40	50	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	22308	KM8
45	55	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	1209	KM9
45	55	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	1309	KM9
45	55	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	2209	KM9
45	55	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	2309	KM9
45	55	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	20209	KM9
45	55	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	20309	KM9
45	55	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	21309	KM9
45	55	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	22209	KM9
45	55	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	22309	KM9
50	60	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	1210	KM10
50	60	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	1310	KM10
50	60	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	2210	KM10
50	60	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	2310	KM10
50	60	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	20210	KM10
50	60	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	20310	KM10
50	60	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	21310	KM10
50	60	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	22210	KM10
50	60	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	22310	KM10

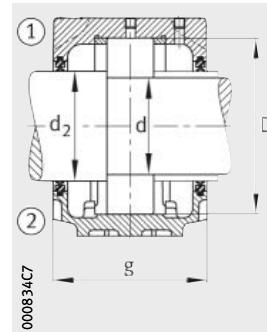
① Locating bearing; ② Non-locating bearing



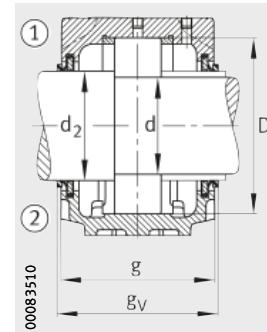
Double lip seal DH
Cover DKVT



Felt seal FSV



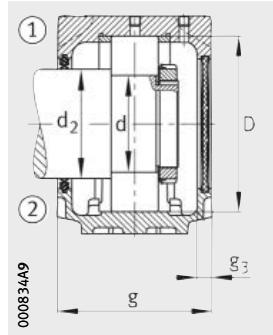
Double lip seal DH



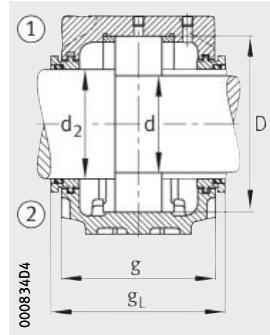
V ring seal DHV



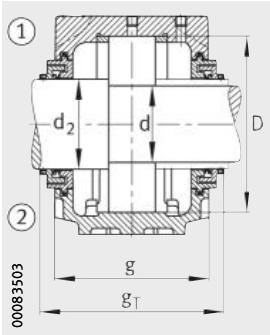
Locating ring	Felt seal	Double lip seal	Housing				Cover	Mass m ≈ kg	Designation
			Labyrinth seal	V ring seal	Taconite seal				
Quantity 2			gL mm	gV mm	gT mm				
FRM80/10,5	FSV208	DH208	TSV208	98	DHV208	93	DKV080	2,9	SNV080-F-L
FRM90/9	FSV308	DH308	TSV308	114	DHV308	106	DKV090	3,1	SNV090-F-L
FRM80/8	FSV208	DH208	TSV208	98	DHV208	93	DKV080	2,9	SNV080-F-L
FRM90/4	FSV308	DH308	TSV308	114	DHV308	106	DKV090	3,1	SNV090-F-L
FRM80/10,5	FSV208	DH208	TSV208	98	DHV208	93	DKV080	2,9	SNV080-F-L
FRM90/9	FSV308	DH308	TSV308	114	DHV308	106	DKV090	3,1	SNV090-F-L
FRM90/9	FSV308	DH308	TSV308	114	DHV308	106	DKV090	3,1	SNV090-F-L
FRM80/8	FSV208	DH208	TSV208	98	DHV208	93	DKV080	2,9	SNV080-F-L
FRM90/4	FSV308	DH308	TSV308	114	DHV308	106	DKV090	3,1	SNV090-F-L
FRM85/6	FSV209	DH209	TSV209	101	DHV209	93	DKV085	2,8	SNV085-F-L
FRM100/9,5	FSV309	DH309	TSV309	119	DHV309	111	DKV100	4,3	SNV100-F-L
FRM85/4	FSV209	DH209	TSV209	101	DHV209	93	DKV085	2,8	SNV085-F-L
FRM100/4	FSV309	DH309	TSV309	119	DHV309	111	DKV100	4,3	SNV100-F-L
FRM85/6	FSV209	DH209	TSV209	101	DHV209	93	DKV085	2,8	SNV085-F-L
FRM100/9,5	FSV309	DH309	TSV309	119	DHV309	111	DKV100	4,3	SNV100-F-L
FRM100/9,5	FSV309	DH309	TSV309	119	DHV309	111	DKV100	4,3	SNV100-F-L
FRM85/4	FSV209	DH209	TSV209	101	DHV209	93	DKV085	2,8	SNV085-F-L
FRM100/4	FSV309	DH309	TSV309	119	DHV309	111	DKV100	4,3	SNV100-F-L
FRM90/10,5	FSV210	DH210	TSV210	114	DHV210	106	DKV090	3,1	SNV090-F-L
FRM110/10,5	FSV310	DH310	TSV310	124	DHV310	116	DKV110	4,9	SNV110-F-L
FRM90/9	FSV210	DH210	TSV210	114	DHV210	106	DKV090	3,1	SNV090-F-L
FRM110/4	FSV310	DH310	TSV310	124	DHV310	116	DKV110	4,9	SNV110-F-L
FRM90/10,5	FSV210	DH210	TSV210	114	DHV210	106	DKV090	3,1	SNV090-F-L
FRM110/10,5	FSV310	DH310	TSV310	124	DHV310	116	DKV110	4,9	SNV110-F-L
FRM90/9	FSV210	DH210	TSV210	114	DHV210	106	DKV090	3,1	SNV090-F-L
FRM110/4	FSV310	DH310	TSV310	124	DHV310	116	DKV110	4,9	SNV110-F-L



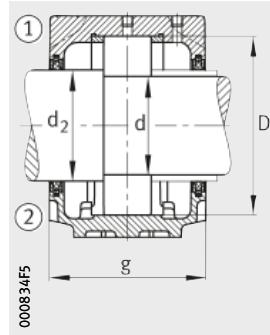
Double lip seal DH
Cover DKV



Labyrinth seal TSV



Taconite seal TCV



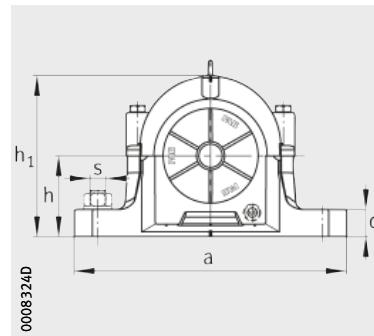
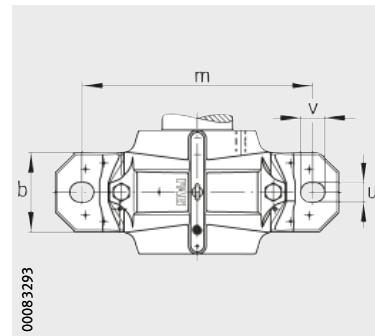
Felt seal FSV



Locating ring	Felt seal	Double lip seal	Housing			Cover	Mass m ≈ kg	Designation
				g_L mm	g_V mm			
Quantity 2								
FRM100/11,5	FSV211	DH211	TSV211	119	DHV211	111	–	DKV100 4,3 SNV100-F-L
FRM120/11	FSV311	DH311	TSV311	129	DHV311	121	–	DKV120 6,1 SNV120-F-L
FRM100/9,5	FSV211	DH211	TSV211	119	DHV211	111	–	DKV100 4,3 SNV100-F-L
FRM120/4	FSV311	DH311	TSV311	129	DHV311	121	–	DKV120 6,1 SNV120-F-L
FRM100/11,5	FSV211	DH211	TSV211	119	DHV211	111	–	DKV100 4,3 SNV100-F-L
FRM120/11	FSV311	DH311	TSV311	129	DHV311	121	–	DKV120 6,1 SNV120-F-L
FRM120/11	FSV311	DH311	TSV311	129	DHV311	121	–	DKV120 6,1 SNV120-F-L
FRM100/9,5	FSV211	DH211	TSV211	119	DHV211	111	–	DKV100 4,3 SNV100-F-L
FRM120/4	FSV311	DH311	TSV311	129	DHV311	121	–	DKV120 6,1 SNV120-F-L
FRM110/13	FSV212	DH212	TSV212	124	DHV212	120	–	DKV110 4,9 SNV110-F-L
FRM130/12,5	FSV312	DH312	TSV312	134	DHV312	130	TCV312 158	DKV130 6,8 SNV130-F-L
FRM110/10	FSV212	DH212	TSV212	124	DHV212	120	–	DKV110 4,9 SNV110-F-L
FRM130/5	FSV312	DH312	TSV312	134	DHV312	130	TCV312 158	DKV130 6,8 SNV130-F-L
FRM110/13	FSV212	DH212	TSV212	124	DHV212	120	–	DKV110 4,9 SNV110-F-L
FRM130/12,5	FSV312	DH312	TSV312	134	DHV312	130	TCV312 158	DKV130 6,8 SNV130-F-L
FRM130/12,5	FSV312	DH312	TSV312	134	DHV312	130	TCV312 158	DKV130 6,8 SNV130-F-L
FRM110/10	FSV212	DH212	TSV212	124	DHV212	120	–	DKV110 4,9 SNV110-F-L
FRM130/5	FSV312	DH312	TSV312	134	DHV312	130	TCV312 158	DKV130 6,8 SNV130-F-L
FRM120/14	FSV213	DH213	TSV213	129	DHV213	125	–	DKV120 6,1 SNV120-F-L
FRM140/12,5	FSV313	DH313	TSV313	150,3	DHV313	142,5	TCV313 175,5	DKV140 9,3 SNV140-F-L
FRM120/10	FSV213	DH213	TSV213	129	DHV213	125	–	DKV120 6,1 SNV120-F-L
FRM140/5	FSV313	DH313	TSV313	150,3	DHV313	142,5	TCV313 175,5	DKV140 9,3 SNV140-F-L
FRM120/14	FSV213	DH213	TSV213	129	DHV213	125	–	DKV120 6,1 SNV120-F-L
FRM140/12,5	FSV313	DH313	TSV313	150,3	DHV313	142,5	TCV313 175,5	DKV140 9,3 SNV140-F-L
FRM120/10	FSV213	DH213	TSV213	129	DHV213	125	–	DKV120 6,1 SNV120-F-L
FRM140/5	FSV313	DH313	TSV313	150,3	DHV313	142,5	TCV313 175,5	DKV140 9,3 SNV140-F-L

Plummer block housings

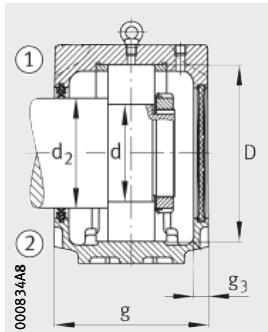
SNV, split
For bearings
with cylindrical bore
Metric shaft



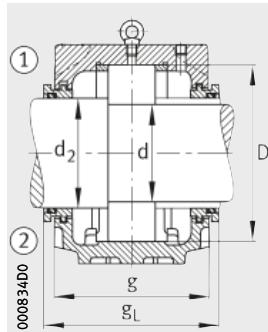
Dimension table (continued) · Dimensions in mm

Shaft		Housing Dimensions											Bearing and accessories			
d	d ₂	h	h ₁	g	b	c	a	m	v	u	s	D	g ₃	Bearing	Lock-nut	Tab washer
											mm	inch				
140	155	150	304	200	150	50	500	420	42	35	M30	1 1/4	250	18	20228	KM28
140	160	180	366	215	170	65	620	520	42	35	M30	1 1/4	300	18	20328	KM28
140	155	150	304	200	150	50	500	420	42	35	M30	1 1/4	250	18	22228	KM28
140	160	180	366	215	170	65	620	520	42	35	M30	1 1/4	300	18	22328	KM28
140	155	150	304	200	150	50	500	420	42	35	M30	1 1/4	250	18	23228	KM28
150	165	160	328	215	160	60	530	450	42	35	M30	1 1/4	270	18	20230	KM30
150	170	190	386	225	180	65	650	560	42	35	M30	1 1/4	320	18	20330	KM30
150	165	160	328	215	160	60	530	450	42	35	M30	1 1/4	270	18	22230	KM30
150	170	190	386	225	180	65	650	560	42	35	M30	1 1/4	320	18	22330	KM30
150	165	160	328	215	160	60	530	450	42	35	M30	1 1/4	270	18	23230	KM30
160	175	170	351	225	160	60	550	470	42	35	M30	1 1/4	290	18	20232	KM32
160	175	170	351	225	160	60	550	470	42	35	M30	1 1/4	290	18	22232	KM32
160	180	200	406	235	190	70	680	580	50	42	M36	1 1/4	340	18	22332	KM32
160	175	170	351	225	160	60	550	470	42	35	M30	1 1/4	290	18	23232	KM32

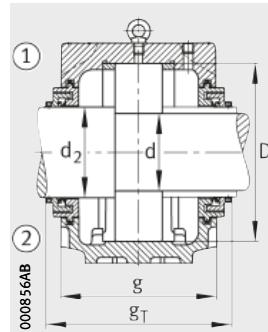
① Locating bearing; ② Non-locating bearing



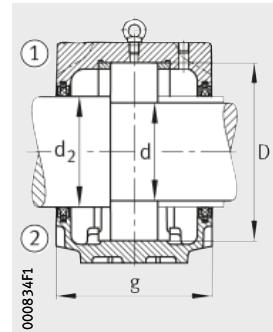
Double lip seal DH
Cover DKV



Labyrinth seal TSV



Taconite seal TCV



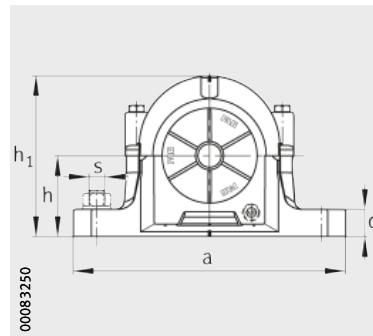
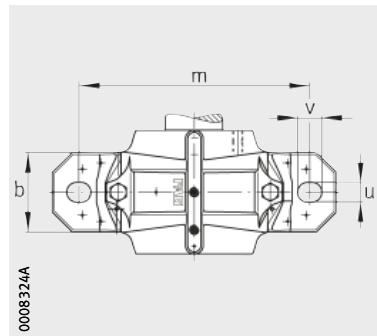
Felt seal FSV



Locating ring	Felt seal	Double lip seal	Housing					Cover	Mass $m \approx kg$	Designation
			Labyrinth seal		V ring seal		Taconite seal			
Quantity 2			g_L mm		g_V mm	g_T mm				
FRM250/28	FSV228	DH228	TSV228	218,3	DHV228	211,5	–	–	DKV250	38 SNV250-F-L
FRM300/25	FSV328	DH328	TSV328	233,3	DHV328	226,5	–	–	DKV250	70 SNV300-F-L
FRM250/15	FSV228	DH228	TSV228	218,3	DHV228	211,5	–	–	DKV250	38 SNV250-F-L
FRM300/5	FSV328	DH328	TSV328	233,3	DHV328	226,5	–	–	DKV250	70 SNV300-F-L
FRM250/5	FSV228	DH228	TSV228	218,3	DHV228	211,5	–	–	DKV250	38 SNV250-F-L
FRM270/30,5	FSV230	DH230	TSV230	233,3	DHV230	228,5	–	–	DKV270	45,5 SNV270-F-L
FRM320/26,5	FSV330	DH330	TSV330	243,3	DHV330	236,5	–	–	DKV270	95 SNV320-F-L
FRM270/16,5	FSV230	DH230	TSV230	233,3	DHV230	228,5	–	–	DKV270	45,5 SNV270-F-L
FRM320/5	FSV330	DH330	TSV330	243,3	DHV330	236,5	–	–	DKV270	95 SNV320-F-L
FRM270/5	FSV230	DH230	TSV230	233,3	DHV230	228,5	–	–	DKV270	45,5 SNV270-F-L
FRM290/33	FSV232	DH232	TSV232	243,3	DHV232	236,5	–	–	DKV290	53,8 SNV290-F-L
FRM290/17	FSV232	DH232	TSV232	243,3	DHV232	236,5	–	–	DKV290	53,8 SNV290-F-L
FRM340/5	FSV332	DH332	TSV332	253,3	DHV332	246,5	–	–	DKV290	115 SNV340-F-L
FRM290/5	FSV232	DH232	TSV232	243,3	DHV232	236,5	–	–	DKV290	53,8 SNV290-F-L

Plummer block housings

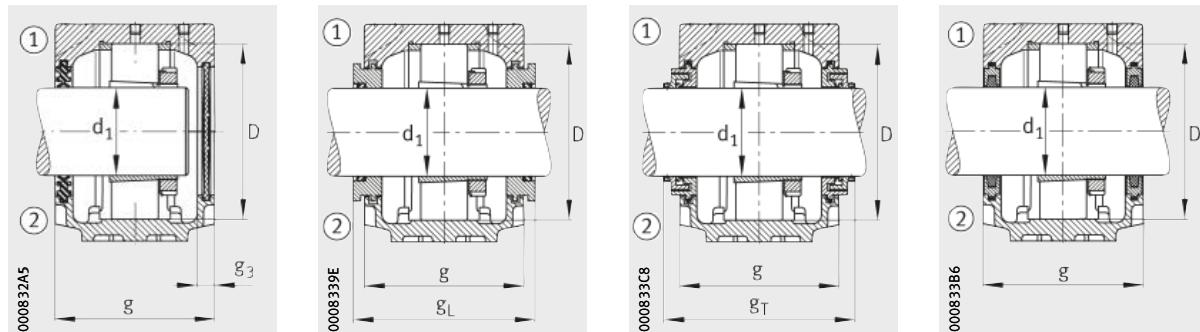
SNV, split
For bearings with tapered bore and adapter sleeve
Inch size shaft



Dimension table · Dimensions in mm and inch

Shaft		Housing Dimensions												Bearing and accessories			
d ₁		h	h ₁	g	b	c	a	m	v	u	s	D	g ₃	Bearing	Adapter sleeve	Locating ring	
inch	mm										mm	inch			Quantity 2		
12/16	19,05	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	1205-K	H205X012	FRM52/6
12/16	19,05	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	1305-K	H305X012	FRM62/6,5
12/16	19,05	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	20205-K	H205X012	FRM52/6
12/16	19,05	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	2205-K	H305X012	FRM52/4,5
12/16	19,05	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	22205..K	H305X012	FRM52/4,5
12/16	19,05	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	2305-K	H2305X012	FRM62/3
13/16	20,638	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	1205-K	H205X013	FRM52/6
13/16	20,638	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	20205-K	H205X013	FRM52/6
13/16	20,638	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	2205-K	H305X013	FRM52/4,5
13/16	20,638	40	75	70	46	19	165	130	20	15	M12	1/2	52	10,5	22205..K	H305X013	FRM52/4,5
14/16	22,225	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	1206-K	H206X014	FRM62/7
14/16	22,225	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	1306-K	H306X014	FRM72/7
14/16	22,225	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	20206-K	H206X014	FRM62/7
14/16	22,225	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	2206-K	H306X014	FRM62/5
14/16	22,225	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	22206..K	H306X014	FRM62/5
14/16	22,225	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	2306-K	H2306X014	FRM72/3
15/16	23,813	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	1206-K	H206X015	FRM62/7
15/16	23,813	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	1306-K	H306X015	FRM72/7
15/16	23,813	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	20206-K	H206X015	FRM62/7
15/16	23,813	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	2206-K	H306X015	FRM62/5
15/16	23,813	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	22206..K	H306X015	FRM62/5
15/16	23,813	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	2306-K	H2306X015	FRM72/3
1	25,4	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	1206-K	H206X100	FRM62/7
1	25,4	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	1306-K	H306X100	FRM72/7
1	25,4	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	20206-K	H206X100	FRM62/7
1	25,4	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	2206-K	H306X100	FRM62/5
1	25,4	50	91	75	52	22	185	150	20	15	M12	1/2	62	10,5	22206..K	H306X100	FRM62/5
1	25,4	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	2306-K	H2306X100	FRM72/3

① Locating bearing; ② Non-locating bearing



Double lip seal DH
Cover DKV

Labyrinth seal TSV

Taconite seal TCV

Felt seal FSV

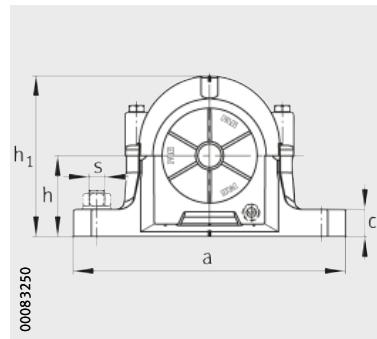
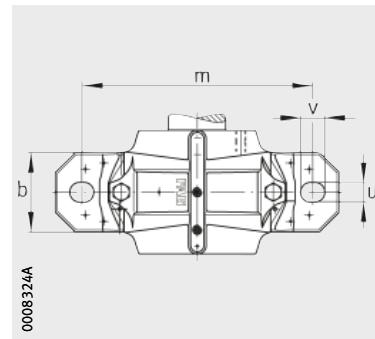


Felt seal	Double lip seal	Housing						Cover	Mass m ≈ kg	Designation
		Labyrinth seal		Taconite seal		V ring seal				
			g _L mm			g _T mm				
FSV505X012	DH505X012	TSV505X012	83	—	—	DHV505X012	76	DKV052	1,3	SNV052-F-L
FSV605X012	DH605X012	TSV605X012	88	—	—	DHV605X012	81	DKV062	1,9	SNV062-F-L
FSV505X012	DH505X012	TSV505X012	83	—	—	DHV505X012	76	DKV052	1,3	SNV052-F-L
FSV505X012	DH505X012	TSV505X012	83	—	—	DHV505X012	76	DKV052	1,3	SNV052-F-L
FSV505X012	DH505X012	TSV505X012	83	—	—	DHV505X012	76	DKV052	1,3	SNV052-F-L
FSV605X012	DH605X012	TSV605X012	88	—	—	DHV605X012	81	DKV062	1,9	SNV062-F-L
FSV505	DH505	TSV505X013	83	—	—	DHV505	76	DKV052	1,3	SNV052-F-L
FSV505	DH505	TSV505X013	83	—	—	DHV505	76	DKV052	1,3	SNV052-F-L
FSV505	DH505	TSV505X013	83	—	—	DHV505	76	DKV052	1,3	SNV052-F-L
FSV505	DH505	TSV505X013	83	—	—	DHV505	76	DKV052	1,3	SNV052-F-L
FSV506X014	DH506X014	TSV506X014	88	—	—	DHV506X014	81	DKV062	1,9	SNV062-F-L
FSV606X014	DH606X014	TSV606X014	93	TCV606X014	117	DHV606X014	86	DKV072	2	SNV072-F-L
FSV506X014	DH506X014	TSV506X014	88	—	—	DHV506X014	81	DKV062	1,9	SNV062-F-L
FSV506X014	DH506X014	TSV506X014	88	—	—	DHV506X014	81	DKV062	1,9	SNV062-F-L
FSV506X014	DH506X014	TSV506X014	88	—	—	DHV506X014	81	DKV062	1,9	SNV062-F-L
FSV606X014	DH606X014	TSV606X014	93	TCV606X014	117	DHV606X014	86	DKV072	2	SNV072-F-L
FSV506X015	DH506X014	TSV506X015	88	—	—	DHV506X015	81	DKV062	1,9	SNV062-F-L
FSV606X015	DH606X014	TSV606X015	93	TCV606X015	117	DHV606X015	86	DKV072	2	SNV072-F-L
FSV506X015	DH506X014	TSV506X015	88	—	—	DHV506X015	81	DKV062	1,9	SNV062-F-L
FSV506X015	DH506X014	TSV506X015	88	—	—	DHV506X015	81	DKV062	1,9	SNV062-F-L
FSV506X015	DH506X014	TSV506X015	88	—	—	DHV506X015	81	DKV062	1,9	SNV062-F-L
FSV606X015	DH606X014	TSV606X015	93	TCV606X015	117	DHV606X015	86	DKV072	2	SNV072-F-L
FSV506	DH506	TSV506X100	88	—	—	DHV506	81	DKV062	1,9	SNV062-F-L
FSV606	DH606	TSV606X100	93	TCV606	117	DHV606	86	DKV072	2	SNV072-F-L
FSV506	DH506	TSV506X100	88	—	—	DHV506	81	DKV062	1,9	SNV062-F-L
FSV506	DH506	TSV506X100	88	—	—	DHV506	81	DKV062	1,9	SNV062-F-L
FSV606	DH606	TSV606X100	93	TCV606	117	DHV606	86	DKV072	2	SNV072-F-L

Plummer block housings

SNV, split

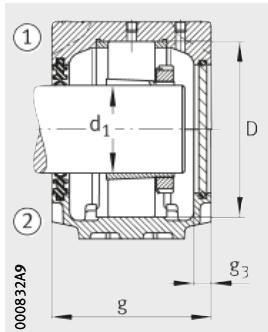
For bearings with tapered bore and adapter sleeve
Inch size shaft



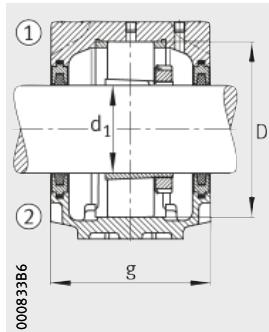
Dimension table (continued) · Dimensions in mm and *inch*

Shaft		Housing Dimensions												Bearing and accessories			
d_1		h	h_1	g	b	c	a	m	v	u	s	D	g_3	Bearing	Adapter sleeve	Locating ring	
		inch	mm	mm	inch	mm	inch	mm	inch	mm	mm	inch	mm	inch	mm	inch	Quantity 2
12/16	28,575	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	1207-K	H207X102	FRM72/8
12/16	28,575	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	1307-K	H307X102	FRM80/9
12/16	28,575	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	20207-K	H207X102	FRM72/8
12/16	28,575	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	21307..-K	H307X102	FRM80/9
12/16	28,575	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	2207-K	H307X102	FRM72/5
12/16	28,575	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	22207..-K	H307X102	FRM72/5
12/16	28,575	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	2307-K	H2307X102	FRM80/4
13/16	30,163	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	1207-K	H207X103	FRM72/8
13/16	30,163	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	1307-K	H307X103	FRM80/9
13/16	30,163	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	20207-K	H207X103	FRM72/8
13/16	30,163	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	21307..-K	H307X103	FRM80/9
13/16	30,163	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	2207-K	H307X103	FRM72/5
13/16	30,163	50	97	80	52	22	185	150	20	15	M12	1/2	72	10,5	22207..-K	H307X103	FRM72/5
13/16	30,163	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	2307-K	H2307X103	FRM80/4
14/16	31,75	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	1208-K	H208X104	FRM80/10,5
14/16	31,75	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	1308-K	H308X104	FRM90/9
14/16	31,75	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	20208-K	H208X104	FRM80/10,5
14/16	31,75	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	21308..-K	H308X104	FRM90/9
14/16	31,75	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	2208-K	H308X104	FRM80/8
14/16	31,75	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	22208..-K	H308X104	FRM80/8
14/16	31,75	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	22308..-K	H2308X104	FRM90/4
14/16	31,75	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	2308-K	H2308X104	FRM90/4
15/16	33,338	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	1208-K	H208X105	FRM80/10,5
15/16	33,338	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	1308-K	H308X105	FRM90/9
15/16	33,338	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	20208-K	H208X105	FRM80/10,5
15/16	33,338	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	21308..-K	H308X105	FRM90/9
15/16	33,338	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	2208-K	H308X105	FRM80/8
15/16	33,338	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	22208..-K	H308X105	FRM80/8
15/16	33,338	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	22308..-K	H2308X105	FRM90/4
15/16	33,338	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	2308-K	H2308X105	FRM90/4

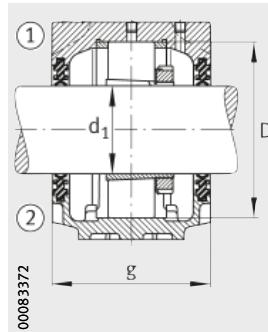
① Locating bearing; ② Non-locating bearing



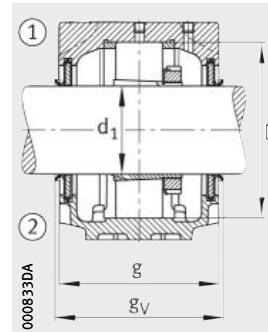
Double lip seal DH
Cover DKVT



Felt seal FSV



Double lip seal DH



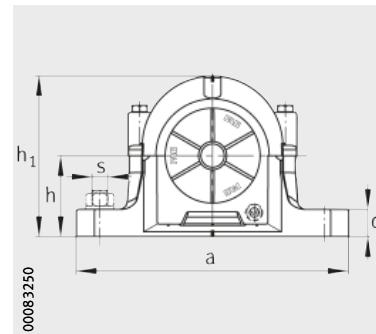
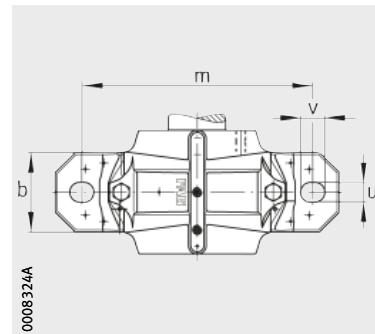
V ring seal DHV



Felt seal	Double lip seal	Housing						Cover	Mass m ≈ kg	Designation
		Labyrinth seal	g _L mm	Taconite seal	g _T mm	V ring seal	g _V mm			
FSV507X102	DH507X102	TSV507X102	93	–	–	DHV507X102	86	DKV072	2	SNV072-F-L
FSV607X102	DH607X102	TSV607X102	98	TCV607X102	122	DHV607X102	91	DKV080	2,9	SNV080-F-L
FSV507X102	DH507X102	TSV507X102	93	–	–	DHV507X102	86	DKV072	2	SNV072-F-L
FSV607X102	DH607X102	TSV607X102	98	TCV607X102	122	DHV607X102	91	DKV080	2,9	SNV080-F-L
FSV507X102	DH507X102	TSV507X102	93	–	–	DHV507X102	86	DKV072	2	SNV072-F-L
FSV507X102	DH507X102	TSV507X102	93	–	–	DHV507X102	86	DKV072	2	SNV072-F-L
FSV607X102	DH607X102	TSV607X102	98	TCV607X102	122	DHV607X102	91	DKV080	2,9	SNV080-F-L
FSV507	DH507	TSV507	93	–	–	DHV507	86	DKV072	2	SNV072-F-L
FSV607	DH607	TSV607	98	TCV607	122	DHV607	91	DKV080	2,9	SNV080-F-L
FSV507	DH507	TSV507	93	–	–	DHV507	86	DKV072	2	SNV072-F-L
FSV607	DH607	TSV607	98	TCV607	122	DHV607	91	DKV080	2,9	SNV080-F-L
FSV507	DH507	TSV507	93	–	–	DHV507	86	DKV072	2	SNV072-F-L
FSV507	DH507	TSV507	93	–	–	DHV507	86	DKV072	2	SNV072-F-L
FSV607	DH607	TSV607	98	TCV607	122	DHV607	91	DKV080	2,9	SNV080-F-L
FSV508X104	DH508X104	TSV508X104	98	TCV508X104	122	DHV508X104	91	DKV080	2,9	SNV080-F-L
FSV608X104	DH608X104	TSV608X104	114	TCV608X104	136	DHV608X104	104	DKV090	3,1	SNV090-F-L
FSV508X104	DH508X104	TSV508X104	98	TCV508X104	122	DHV508X104	91	DKV080	2,9	SNV080-F-L
FSV608X104	DH608X104	TSV608X104	114	TCV608X104	136	DHV608X104	104	DKV090	3,1	SNV090-F-L
FSV508X104	DH508X104	TSV508X104	98	TCV508X104	122	DHV508X104	91	DKV080	2,9	SNV080-F-L
FSV508X104	DH508X104	TSV508X104	98	TCV508X104	122	DHV508X104	91	DKV080	2,9	SNV080-F-L
FSV608X104	DH608X104	TSV608X104	114	TCV608X104	136	DHV608X104	104	DKV090	3,1	SNV090-F-L
FSV508X104	DH608X104	TSV608X104	114	TCV608X104	136	DHV608X104	104	DKV090	3,1	SNV090-F-L
FSV508X105	DH508X104	TSV508X105	98	TCV508X105	122	DHV508X105	91	DKV080	2,9	SNV080-F-L
FSV608X105	DH608X104	TSV608X105	114	TCV608X105	136	DHV608X105	104	DKV090	3,1	SNV090-F-L
FSV508X105	DH508X104	TSV508X105	98	TCV508X105	122	DHV508X105	91	DKV080	2,9	SNV080-F-L
FSV608X105	DH608X104	TSV608X105	114	TCV608X105	136	DHV608X105	104	DKV090	3,1	SNV090-F-L
FSV508X105	DH508X104	TSV508X105	98	TCV508X105	122	DHV508X105	91	DKV080	2,9	SNV080-F-L
FSV608X105	DH608X104	TSV608X105	114	TCV608X105	136	DHV608X105	104	DKV090	3,1	SNV090-F-L
FSV608X105	DH608X104	TSV608X105	114	TCV608X105	136	DHV608X105	104	DKV090	3,1	SNV090-F-L

Plummer block housings

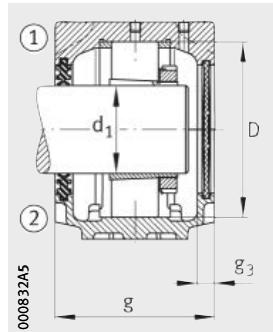
SNV, split
For bearings with tapered bore and adapter sleeve
Inch size shaft



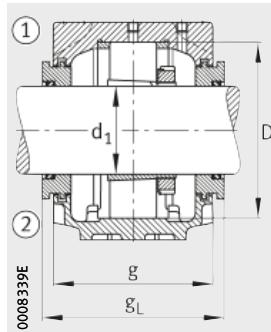
Dimension table (continued) · Dimensions in mm and inch

Shaft		Housing Dimensions											Bearing and accessories				
		d ₁	h	h ₁	g	b	c	a	m	v	u	s		D	g ₃	Bearing	Adapter sleeve	Locating ring
inch	mm											mm	inch				
16/16	34,925	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	1208-K	H208X106	FRM80/10,5
16/16	34,925	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	1308-K	H308X106	FRM90/9
16/16	34,925	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	20208-K	H208X106	FRM80/10,5
16/16	34,925	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	21308..-K	H308X106	FRM90/9
16/16	34,925	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	2208-K	H308X106	FRM80/8
16/16	34,925	60	112	85	60	25	205	170	20	15	M12	1/2	80	10,5	22208..-K	H308X106	FRM80/8
16/16	34,925	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	22308..-K	H2308X106	FRM90/4
16/16	34,925	60	117	100	60	25	205	170	20	15	M12	1/2	90	12,5	2308-K	H2308X106	FRM90/4
17/16	36,513	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	1209-K	H209X107	FRM85/6
17/16	36,513	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	1309-K	H309X107	FRM100/9,5
17/16	36,513	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	20209-K	H209X107	FRM85/6
17/16	36,513	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	21309..-K	H309X107	FRM100/9,5
17/16	36,513	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	2209-K	H309X107	FRM85/4
17/16	36,513	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	22209..-K	H309X107	FRM85/4
17/16	36,513	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	22309..-K	H2309X107	FRM100/4
17/16	36,513	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	2309-K	H2309X107	FRM100/4
18/16	38,1	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	1209-K	H209X108	FRM85/6
18/16	38,1	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	1309-K	H309X108	FRM100/9,5
18/16	38,1	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	20209-K	H209X108	FRM85/6
18/16	38,1	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	21309..-K	H309X108	FRM100/9,5
18/16	38,1	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	2209-K	H309X108	FRM85/4
18/16	38,1	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	22209..-K	H309X108	FRM85/4
18/16	38,1	60	114	87	60	25	205	170	20	15	M12	1/2	85	12,5	22309..-K	H2309X108	FRM100/4
18/16	38,1	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	2309-K	H2309X108	FRM100/4
19/16	39,688	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	1309-K	H309X109	FRM100/9,5
19/16	39,688	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	21309..-K	H309X109	FRM100/9,5
19/16	39,688	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	22309..-K	H2309X109	FRM100/4
19/16	39,688	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	2309-K	H2309X109	FRM100/4

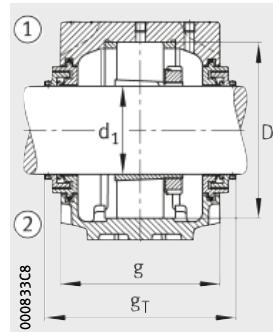
① Locating bearing; ② Non-locating bearing



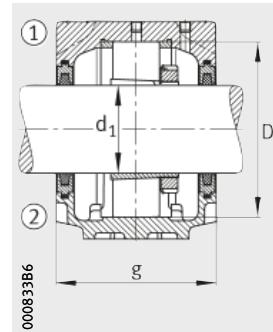
Double lip seal DH
Cover DKV



Labyrinth seal TSV



Taconite seal TCV

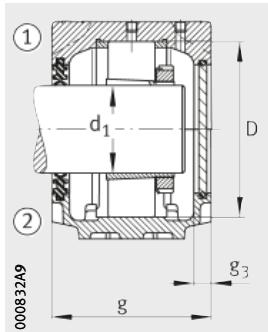


Felt seal FSV

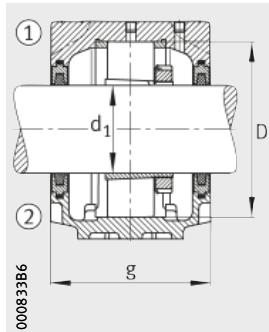


Housing

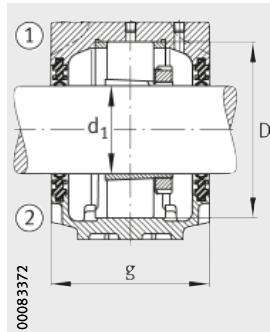
Felt seal	Double lip seal	Labyrinth seal		Taconite seal		V ring seal		Cover	Mass m ≈ kg	Designation
			gL mm		gT mm		gV mm			
FSV508	DH508	TSV508	98	TCV508	122	DHV508	91	DKV080	2,9	SNV080-F-L
FSV608	DH608	TSV608	114	TCV608	136	DHV608	104	DKV090	3,1	SNV090-F-L
FSV508	DH508	TSV508	98	TCV508	122	DHV508	91	DKV080	2,9	SNV080-F-L
FSV608	DH608	TSV608	114	TCV608	136	DHV608	104	DKV090	3,1	SNV090-F-L
FSV508	DH508	TSV508	98	TCV508	122	DHV508	91	DKV080	2,9	SNV080-F-L
FSV508	DH508	TSV508	98	TCV508	122	DHV508	91	DKV080	2,9	SNV080-F-L
FSV608	DH608	TSV608	114	TCV608	136	DHV608	104	DKV090	3,1	SNV090-F-L
FSV608	DH608	TSV608	114	TCV608	136	DHV608	104	DKV090	3,1	SNV090-F-L
FSV509X107	DH509X107	TSV509X107	101	TCV509X107	123	DHV509X107	91	DKV085	2,8	SNV085-F-L
FSV609X107	DH609X107	TSV609X107	119	TCV609X107	141	DHV609X107	109	DKV100	4,3	SNV100-F-L
FSV509X107	DH509X107	TSV509X107	101	TCV509X107	123	DHV509X107	91	DKV085	2,8	SNV085-F-L
FSV609X107	DH609X107	TSV609X107	119	TCV609X107	141	DHV609X107	109	DKV100	4,3	SNV100-F-L
FSV509X107	DH509X107	TSV509X107	101	TCV509X107	123	DHV509X107	91	DKV085	2,8	SNV085-F-L
FSV509X107	DH509X107	TSV509X107	101	TCV509X107	123	DHV509X107	91	DKV085	2,8	SNV085-F-L
FSV609X107	DH609X107	TSV609X107	119	TCV609X107	141	DHV609X107	109	DKV100	4,3	SNV100-F-L
FSV609X107	DH609X107	TSV609X107	119	TCV609X107	141	DHV609X107	109	DKV100	4,3	SNV100-F-L
FSV509X108	DH509X107	TSV509X108	101	TCV509X108	125	DHV509X108	93	DKV085	2,8	SNV085-F-L
FSV609X108	DH609X107	TSV609X108	119	TCV609X108	143	DHV609X108	111	DKV100	4,3	SNV100-F-L
FSV509X108	DH509X107	TSV509X108	101	TCV509X108	125	DHV509X108	93	DKV085	2,8	SNV085-F-L
FSV609X108	DH609X107	TSV609X108	119	TCV609X108	143	DHV609X108	111	DKV100	4,3	SNV100-F-L
FSV509X108	DH509X107	TSV509X108	101	TCV509X108	125	DHV509X108	93	DKV085	2,8	SNV085-F-L
FSV609X108	DH609X107	TSV609X108	119	TCV609X108	143	DHV609X108	111	DKV100	4,3	SNV100-F-L
FSV609X108	DH609X107	TSV609X108	119	TCV609X108	143	DHV609X108	111	DKV100	4,3	SNV100-F-L
FSV609	DH609	TSV609	119	TCV609	141	DHV609	109	DKV100	4,3	SNV100-F-L
FSV609	DH609	TSV609	119	TCV609	141	DHV609	109	DKV100	4,3	SNV100-F-L
FSV609	DH609	TSV609	119	TCV609	141	DHV609	109	DKV100	4,3	SNV100-F-L
FSV609	DH609	TSV609	119	TCV609	141	DHV609	109	DKV100	4,3	SNV100-F-L



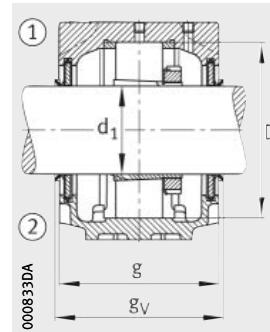
Double lip seal DH
Cover DKVT



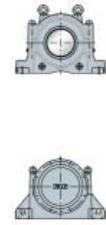
Felt seal FSV



Double lip seal DH



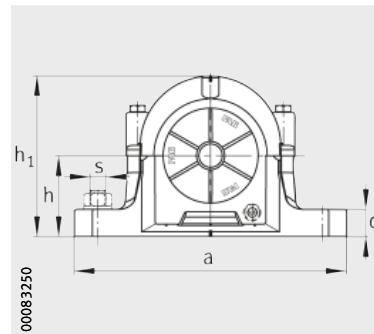
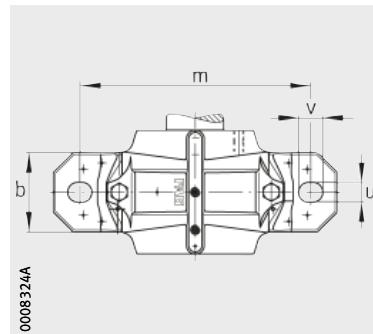
V ring seal DHV



Felt seal	Double lip seal	Housing						Cover	Mass m ≈ kg	Designation
		Labyrinth seal	g _L mm	Taconite seal	g _T mm	V ring seal	g _V mm			
FSV510X110	DH510X110	TSV510X110	114	TCV510X110	138	DHV510X110	106	DKV090	3,1	SNV090-F-L
FSV610X110	DH610X110	TSV610X110	124	TCV610X110	148	DHV610X110	116	DKV110	4,9	SNV110-F-L
FSV510X110	DH510X110	TSV510X110	114	TCV510X110	138	DHV510X110	106	DKV090	3,1	SNV090-F-L
FSV610X110	DH610X110	TSV610X110	124	TCV610X110	148	DHV610X110	116	DKV110	4,9	SNV110-F-L
FSV510X110	DH510X110	TSV510X110	114	TCV510X110	138	DHV510X110	106	DKV090	3,1	SNV090-F-L
FSV510X110	DH510X110	TSV510X110	114	TCV510X110	138	DHV510X110	106	DKV090	3,1	SNV090-F-L
FSV610X110	DH610X110	TSV610X110	124	TCV610X110	148	DHV610X110	116	DKV110	4,9	SNV110-F-L
FSV610X110	DH610X110	TSV610X110	124	TCV610X110	148	DHV610X110	116	DKV110	4,9	SNV110-F-L
FSV510X111	DH510X111	TSV510X111	114	TCV510X111	138	DHV510X111	106	DKV090	3,1	SNV090-F-L
FSV610X111	DH610X111	TSV610X111	124	TCV610X111	148	DHV610X111	116	DKV110	4,9	SNV110-F-L
FSV510X111	DH510X111	TSV510X111	114	TCV510X111	138	DHV510X111	106	DKV090	3,1	SNV090-F-L
FSV610X111	DH610X111	TSV610X111	124	TCV610X111	148	DHV610X111	116	DKV110	4,9	SNV110-F-L
FSV510X111	DH510X111	TSV510X111	114	TCV510X111	138	DHV510X111	106	DKV090	3,1	SNV090-F-L
FSV510X111	DH510X111	TSV510X111	114	TCV510X111	138	DHV510X111	106	DKV090	3,1	SNV090-F-L
FSV610X111	DH610X111	TSV610X111	124	TCV610X111	148	DHV610X111	116	DKV110	4,9	SNV110-F-L
FSV510X111	DH610X111	TSV610X111	124	TCV610X111	148	DHV610X111	116	DKV110	4,9	SNV110-F-L
FSV510	DH510	TSV510X112	114	TCV510	138	DHV510	106	DKV090	3,1	SNV090-F-L
FSV610	DH610	TSV610X112	124	TCV610	148	DHV610	116	DKV110	4,9	SNV110-F-L
FSV510	DH510	TSV510X112	114	TCV510	138	DHV510	106	DKV090	3,1	SNV090-F-L
FSV610	DH610	TSV610X112	124	TCV610	148	DHV610	116	DKV110	4,9	SNV110-F-L
FSV510	DH510	TSV510X112	114	TCV510	138	DHV510	106	DKV090	3,1	SNV090-F-L
FSV510	DH510	TSV510X112	114	TCV510	138	DHV510	106	DKV090	3,1	SNV090-F-L
FSV610	DH610	TSV610X112	124	TCV610	148	DHV610	116	DKV110	4,9	SNV110-F-L
FSV610	DH610	TSV610X112	124	TCV610	148	DHV610	116	DKV110	4,9	SNV110-F-L
FSV511X114	DH511X114	TSV511X114	119	TCV511X114	143	DHV511X114	111	DKV100	4,3	SNV100-F-L
FSV611X114	DH611X114	TSV611X114	129	TCV611X114	153	DHV611X114	121	DKV120	6,1	SNV120-F-L
FSV511X114	DH511X114	TSV511X114	119	TCV511X114	143	DHV511X114	111	DKV100	4,3	SNV100-F-L
FSV611X114	DH611X114	TSV611X114	129	TCV611X114	153	DHV611X114	121	DKV120	6,1	SNV120-F-L
FSV511X114	DH511X114	TSV511X114	119	TCV511X114	143	DHV511X114	111	DKV100	4,3	SNV100-F-L
FSV511X114	DH511X114	TSV511X114	119	TCV511X114	143	DHV511X114	111	DKV100	4,3	SNV100-F-L
FSV611X114	DH611X114	TSV611X114	129	TCV611X114	153	DHV611X114	121	DKV120	6,1	SNV120-F-L
FSV611X114	DH611X114	TSV611X114	129	TCV611X114	153	DHV611X114	121	DKV120	6,1	SNV120-F-L

Plummer block housings

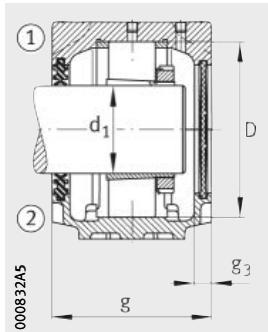
SNV, split
For bearings with tapered bore and adapter sleeve
Inch size shaft



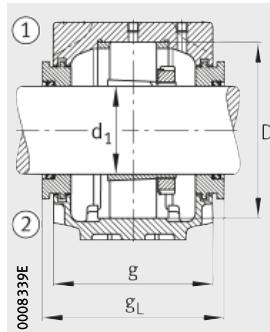
Dimension table (continued) · Dimensions in mm and inch

Shaft		Housing Dimensions												Bearing and accessories			
		d ₁	h	h ₁	g	b	c	a	m	v	u	s	D	g ₃	Bearing	Adapter sleeve	Locating ring
inch	mm		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Quantity 2		
1 15/16	49,213	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	1211-K	H211X115	FRM100/11,5
1 15/16	49,213	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	1311-K	H311X115	FRM120/11
1 15/16	49,213	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	20211-K	H211X115	FRM100/11,5
1 15/16	49,213	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	20311-K	H311X115	FRM120/11
1 15/16	49,213	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	21311..K	H311X115	FRM120/11
1 15/16	49,213	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	2211-K	H311X115	FRM100/9,5
1 15/16	49,213	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	22211..K	H311X115	FRM100/9,5
1 15/16	49,213	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	22311..K	H2311X115	FRM120/4
1 15/16	49,213	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	2311-K	H2311X115	FRM120/4
2	50,8	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	1211-K	H211X200	FRM100/11,5
2	50,8	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	1311-K	H311X200	FRM120/11
2	50,8	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	20211-K	H211X200	FRM100/11,5
2	50,8	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	20311-K	H311X200	FRM120/11
2	50,8	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	21311..K	H311X200	FRM120/11
2	50,8	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	2211-K	H311X200	FRM100/9,5
2	50,8	70	133	105	70	28	255	210	23	18	M16	5/8	100	12,5	22211..K	H311X200	FRM100/9,5
2	50,8	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	22311..K	H2311X200	FRM120/4
2	50,8	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	2311-K	H2311X200	FRM120/4
2 2/16	53,975	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	1212-K	H212X202	FRM110/13
2 2/16	53,975	80	161	120	80	30	280	230	23	18	M16	5/8	130	12,5	1312-K	H312X202	FRM130/12,5
2 2/16	53,975	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	20212-K	H212X202	FRM110/13
2 2/16	53,975	80	161	120	80	30	280	230	23	18	M16	5/8	130	12,5	20312-K	H312X202	FRM130/12,5
2 2/16	53,975	80	161	120	80	30	280	230	23	18	M16	5/8	130	12,5	21312..K	H312X202	FRM130/12,5
2 2/16	53,975	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	2212-K	H312X202	FRM110/10
2 2/16	53,975	70	139	110	70	30	255	210	23	18	M16	5/8	110	12,5	22212..K	H312X202	FRM110/10
2 2/16	53,975	80	161	120	80	30	280	230	23	18	M16	5/8	130	12,5	22312..K	H2312X202	FRM130/5
2 2/16	53,975	80	161	120	80	30	280	230	23	18	M16	5/8	130	12,5	2312-K	H2312X202	FRM130/5

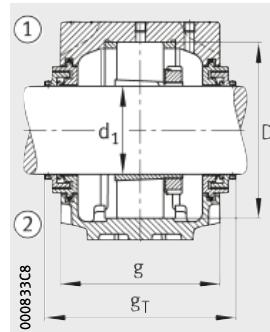
① Locating bearing; ② Non-locating bearing



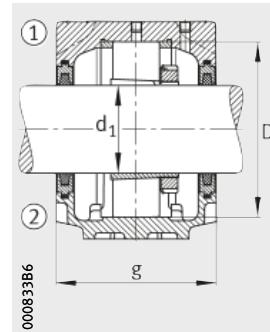
Double lip seal DH
Cover DKV



Labyrinth seal TSV



Taconite seal TCV



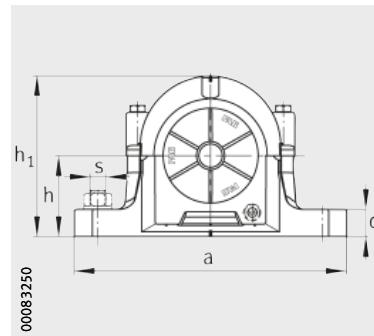
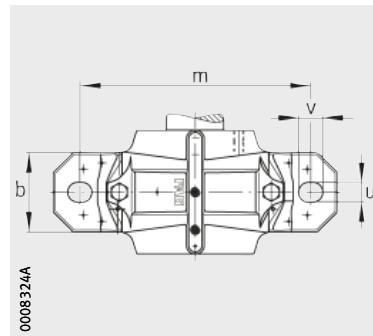
Felt seal FSV



Felt seal	Double lip seal	Housing						Cover	Mass m ≈ kg	Designation
		Labyrinth seal	g _L mm	Taconite seal	g _T mm	V ring seal	g _V mm			
FSV511X115	DH511	TSV511X115	119	TCV511X115	143	DHV511X115	111	DKV100	4,3	SNV100-F-L
FSV611X115	DH611	TSV611X115	129	TCV611X115	153	DHV611X115	121	DKV120	6,1	SNV120-F-L
FSV511X115	DH511	TSV511X115	119	TCV511X115	143	DHV511X115	111	DKV100	4,3	SNV100-F-L
FSV611X115	DH611	TSV611X115	129	TCV611X115	153	DHV611X115	121	DKV120	6,1	SNV120-F-L
FSV611X115	DH611	TSV611X115	129	TCV611X115	153	DHV611X115	121	DKV120	6,1	SNV120-F-L
FSV511X115	DH511	TSV511X115	119	TCV511X115	143	DHV511X115	111	DKV100	4,3	SNV100-F-L
FSV511X115	DH511	TSV511X115	119	TCV511X115	143	DHV511X115	111	DKV100	4,3	SNV100-F-L
FSV611X115	DH611	TSV611X115	129	TCV611X115	153	DHV611X115	121	DKV120	6,1	SNV120-F-L
FSV511X115	DH511	TSV511X115	119	TCV511X115	143	DHV511X115	111	DKV100	4,3	SNV100-F-L
FSV611X115	DH611	TSV611X115	129	TCV611X115	153	DHV611X115	121	DKV120	6,1	SNV120-F-L
FSV611X115	DH611	TSV611X115	129	TCV611X115	153	DHV611X115	121	DKV120	6,1	SNV120-F-L
FSV511	DH511	TSV511X200	119	TCV511X200	143	DHV511	111	DKV100	4,3	SNV100-F-L
FSV611	DH611	TSV611X200	129	TCV611X200	153	DHV611	121	DKV120	6,1	SNV120-F-L
FSV511	DH511	TSV511X200	119	TCV511X200	143	DHV511	111	DKV100	4,3	SNV100-F-L
FSV611	DH611	TSV611X200	129	TCV611X200	153	DHV611	121	DKV120	6,1	SNV120-F-L
FSV511	DH511	TSV511X200	119	TCV511X200	143	DHV511	111	DKV100	4,3	SNV100-F-L
FSV511	DH511	TSV511X200	119	TCV511X200	143	DHV511	111	DKV100	4,3	SNV100-F-L
FSV611	DH611	TSV611X200	129	TCV611X200	153	DHV611	121	DKV120	6,1	SNV120-F-L
FSV611	DH611	TSV611X200	129	TCV611X200	153	DHV611	121	DKV120	6,1	SNV120-F-L
FSV512X202	DH512	TSV512X202	124	TCV512X202	148	DHV512	116	DKV110	4,9	SNV110-F-L
FSV612X202	DH612	TSV612X202	134	TCV612X202	158	DHV612	126	DKV130	6,8	SNV130-F-L
FSV512X202	DH512	TSV512X202	124	TCV512X202	148	DHV512	116	DKV110	4,9	SNV110-F-L
FSV612X202	DH612	TSV612X202	134	TCV612X202	158	DHV612	126	DKV130	6,8	SNV130-F-L
FSV512X202	DH512	TSV512X202	124	TCV512X202	148	DHV512	116	DKV110	4,9	SNV110-F-L
FSV612X202	DH612	TSV612X202	134	TCV612X202	158	DHV612	126	DKV110	4,9	SNV110-F-L
FSV512X202	DH512	TSV512X202	124	TCV512X202	148	DHV512	116	DKV130	6,8	SNV130-F-L
FSV612X202	DH612	TSV612X202	134	TCV612X202	158	DHV612	126	DKV130	6,8	SNV130-F-L

Plummer block housings

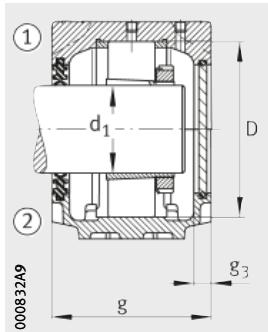
SNV, split
For bearings with tapered bore and adapter sleeve
Inch size shaft



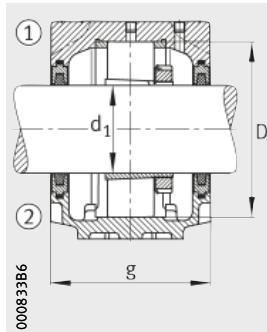
Dimension table (continued) · Dimensions in mm and inch

Shaft		Housing Dimensions												Bearing and accessories			
		d ₁	h	h ₁	g	b	c	a	m	v	u	s	D	g ₃	Bearing	Adapter sleeve	Locating ring
inch	mm														Quantity 2		
2 ³ / ₁₆	55,563	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	1213-K	H213X203	FRM120/14
2 ³ / ₁₆	55,563	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	1313-K	H313X203	FRM140/12,5
2 ³ / ₁₆	55,563	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	20213-K	H213X203	FRM120/14
2 ³ / ₁₆	55,563	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	20313-K	H313X203	FRM140/12,5
2 ³ / ₁₆	55,563	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	21313..K	H313X203	FRM140/12,5
2 ³ / ₁₆	55,563	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	2213-K	H313X203	FRM120/10
2 ³ / ₁₆	55,563	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	22213..K	H313X203	FRM120/10
2 ³ / ₁₆	55,563	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	22313..K	H2313X203	FRM140/5
2 ³ / ₁₆	55,563	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	2313-K	H2313X203	FRM140/5
2 ⁴ / ₁₆	57,15	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	1213-K	H213X204	FRM120/14
2 ⁴ / ₁₆	57,15	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	1313-K	H313X204	FRM140/12,5
2 ⁴ / ₁₆	57,15	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	20213-K	H213X204	FRM120/14
2 ⁴ / ₁₆	57,15	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	20313-K	H313X204	FRM140/12,5
2 ⁴ / ₁₆	57,15	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	21313..K	H313X204	FRM140/12,5
2 ⁴ / ₁₆	57,15	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	2213-K	H313X204	FRM120/10
2 ⁴ / ₁₆	57,15	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	22213..K	H313X204	FRM120/10
2 ⁴ / ₁₆	57,15	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	22313..K	H2313X204	FRM140/5
2 ⁴ / ₁₆	57,15	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	2313-K	H2313X204	FRM140/5
2 ⁶ / ₁₆	60,325	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	1213-K	H213X206	FRM120/14
2 ⁶ / ₁₆	60,325	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	1313-K	H313X206	FRM140/12,5
2 ⁶ / ₁₆	60,325	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	20213-K	H213X206	FRM120/14
2 ⁶ / ₁₆	60,325	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	20313-K	H313X206	FRM140/12,5
2 ⁶ / ₁₆	60,325	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	21313..K	H313X206	FRM140/12,5
2 ⁶ / ₁₆	60,325	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	2213-K	H313X206	FRM120/10
2 ⁶ / ₁₆	60,325	80	155	115	80	30	275	230	23	18	M16	5/8	120	12,5	22213..K	H313X206	FRM120/10
2 ⁶ / ₁₆	60,325	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	22313..K	H2313X206	FRM140/5
2 ⁶ / ₁₆	60,325	95	183	135	90	32	315	260	27	22	M20	3/4	140	15	2313-K	H2313X206	FRM140/5

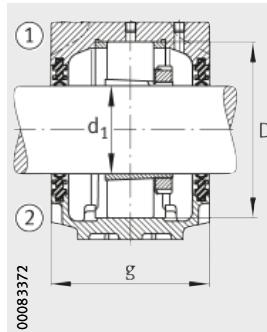
① Locating bearing; ② Non-locating bearing



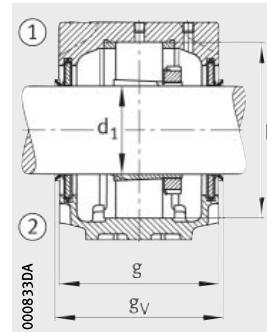
Double lip seal DH
Cover DKVT



Felt seal FSV



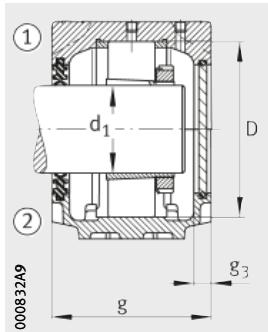
Double lip seal DH



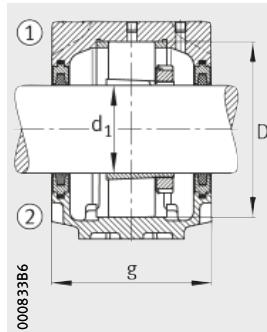
V ring seal DHV



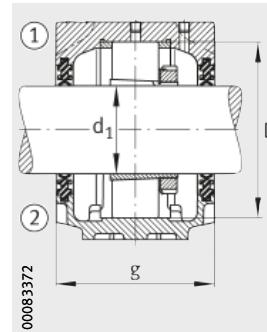
Felt seal	Double lip seal	Housing						Cover	Mass m ≈ kg	Designation
		Labyrinth seal	g _L mm	Taconite seal	g _T mm	V ring seal	g _V mm			
FSV513X203	DH513X203	TSV513X203	129	TCV513X203	153	DHV513X203	121	DKV120	6,1	SNV120-F-L
FSV613X203	DH613X203	TSV613X203	150,3	TCV613X203	172	DHV613X203	139	DKV140	9,3	SNV140-F-L
FSV513X203	DH513X203	TSV513X203	129	TCV513X203	153	DHV513X203	121	DKV120	6,1	SNV120-F-L
FSV613X203	DH613X203	TSV613X203	150,3	TCV613X203	172	DHV613X203	139	DKV140	9,3	SNV140-F-L
FSV613X203	DH613X203	TSV613X203	150,3	TCV613X203	172	DHV613X203	139	DKV140	9,3	SNV140-F-L
FSV513X203	DH513X203	TSV513X203	129	TCV513X203	153	DHV513X203	121	DKV120	6,1	SNV120-F-L
FSV513X203	DH513X203	TSV513X203	129	TCV513X203	153	DHV513X203	121	DKV120	6,1	SNV120-F-L
FSV613X203	DH613X203	TSV613X203	150,3	TCV613X203	172	DHV613X203	139	DKV140	9,3	SNV140-F-L
FSV513X203	DH513X203	TSV513X203	129	TCV513X204	153	DHV513X204	121	DKV120	6,1	SNV120-F-L
FSV613X204	DH613X203	TSV613X204	150,3	TCV613X204	172	DHV613X204	139	DKV140	9,3	SNV140-F-L
FSV513X204	DH513X203	TSV513X204	129	TCV513X204	153	DHV513X204	121	DKV120	6,1	SNV120-F-L
FSV613X204	DH613X203	TSV613X204	150,3	TCV613X204	172	DHV613X204	139	DKV140	9,3	SNV140-F-L
FSV513X204	DH513X203	TSV513X204	129	TCV513X204	153	DHV513X204	121	DKV120	6,1	SNV120-F-L
FSV513X204	DH513X203	TSV513X204	129	TCV513X204	153	DHV513X204	121	DKV120	6,1	SNV120-F-L
FSV613X204	DH613X203	TSV613X204	150,3	TCV613X204	172	DHV613X204	139	DKV140	9,3	SNV140-F-L
FSV613X204	DH613X203	TSV613X204	150,3	TCV613X204	172	DHV613X204	139	DKV140	9,3	SNV140-F-L
FSV513	DH513	TSV513	129	TCV513	153	DHV513	121	DKV120	6,1	SNV120-F-L
FSV613	DH613	TSV613	150,3	TCV613	172	DHV613	139	DKV140	9,3	SNV140-F-L
FSV513	DH513	TSV513	129	TCV513	153	DHV513	121	DKV120	6,1	SNV120-F-L
FSV613	DH613	TSV613	150,3	TCV613	172	DHV613	139	DKV140	9,3	SNV140-F-L
FSV613	DH613	TSV613	150,3	TCV613	172	DHV613	139	DKV140	9,3	SNV140-F-L
FSV513	DH513	TSV513	129	TCV513	153	DHV513	121	DKV120	6,1	SNV120-F-L
FSV513	DH513	TSV513	129	TCV513	153	DHV513	121	DKV120	6,1	SNV120-F-L
FSV613	DH613	TSV613	150,3	TCV613	172	DHV613	139	DKV140	9,3	SNV140-F-L
FSV613	DH613	TSV613	150,3	TCV613	172	DHV613	139	DKV140	9,3	SNV140-F-L



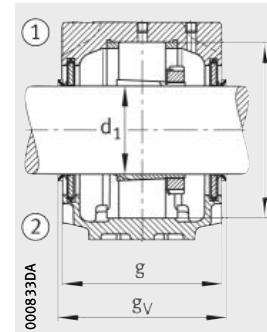
Double lip seal DH
Cover DKVT



Felt seal FSV



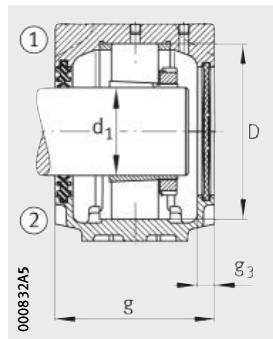
Double lip seal DH



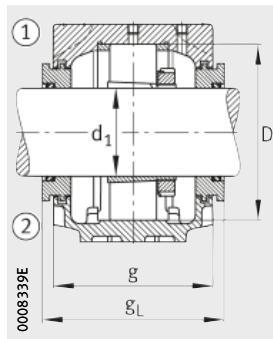
V ring seal DHV



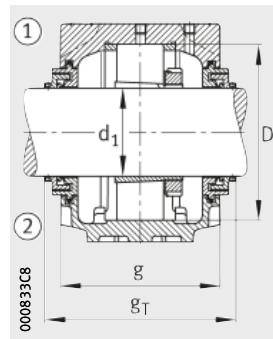
Felt seal	Double lip seal	Housing						Cover	Mass m ≈ kg	Designation
		Labyrinth seal	g _L mm	Taconite seal	g _T mm	V ring seal	g _V mm			
FSV516	DH516	TSV516	150,3	TCV516	176	DHV516	143	DKV140	9,3	SNV140-F-L
FSV616	DH616	TSV616	167,3	TCV616	193	DHV616	158	DKV170	14,4	SNV170-F-L
FSV516	DH516	TSV516	150,3	TCV516	176	DHV516	143	DKV140	9,3	SNV140-F-L
FSV616	DH616	TSV616	167,3	TCV616	193	DHV616	158	DKV170	14,4	SNV170-F-L
FSV516	DH516	TSV516	150,3	TCV516	176	DHV516	143	DKV140	9,3	SNV140-F-L
FSV516	DH516	TSV516	150,3	TCV516	176	DHV516	143	DKV140	9,3	SNV140-F-L
FSV616	DH616	TSV616	167,3	TCV616	193	DHV616	158	DKV170	14,4	SNV170-F-L
FSV616	DH616	TSV616	167,3	TCV616	193	DHV616	158	DKV170	14,4	SNV170-F-L
FSV516X214	DH516X214	TSV516X214	150,3	TCV516X214	176	DHV516X214	143	DKV140	9,3	SNV140-F-L
FSV616X214	DH616X214	TSV616X214	167,3	TCV616X214	193	DHV616X214	158	DKV170	14,4	SNV170-F-L
FSV516X214	DH516X214	TSV516X214	150,3	TCV516X214	176	DHV516X214	143	DKV140	9,3	SNV140-F-L
FSV616X214	DH616X214	TSV616X214	167,3	TCV616X214	193	DHV616X214	158	DKV170	14,4	SNV170-F-L
FSV516X214	DH516X214	TSV516X214	150,3	TCV516X214	176	DHV516X214	143	DKV140	9,3	SNV140-F-L
FSV516X214	DH516X214	TSV516X214	150,3	TCV516X214	176	DHV516X214	143	DKV140	9,3	SNV140-F-L
FSV616X214	DH616X214	TSV616X214	167,3	TCV616X214	193	DHV616X214	158	DKV170	14,4	SNV170-F-L
FSV616X214	DH616X214	TSV616X214	167,3	TCV616X214	193	DHV616X214	158	DKV170	14,4	SNV170-F-L
FSV517	DH517	TSV517	155,3	TCV517	181	DHV517	148	DKV150	9,9	SNV150-F-L
FSV617	DH617	TSV617	177,3	TCV617	203	DHV617	168	DKV180	17	SNV180-F-L
FSV517	DH517	TSV517	155,3	TCV517	181	DHV517	148	DKV150	9,9	SNV150-F-L
FSV617	DH617	TSV617	177,3	TCV617	203	DHV617	168	DKV180	17	SNV180-F-L
FSV517	DH517	TSV517	155,3	TCV517	181	DHV517	148	DKV150	9,9	SNV150-F-L
FSV517	DH517	TSV517	155,3	TCV517	181	DHV517	148	DKV150	9,9	SNV150-F-L
FSV617	DH617	TSV617	177,3	TCV617	203	DHV617	168	DKV180	17	SNV180-F-L
FSV617	DH617	TSV617	177,3	TCV617	203	DHV617	168	DKV180	17	SNV180-F-L
FSV517X300	DH517	TSV517X300	155,3	TCV517X300	181	DHV517X300	148	DKV150	9,9	SNV150-F-L
FSV617X300	DH617	TSV617X300	177,3	TCV617X300	203	DHV617X300	168	DKV180	17	SNV180-F-L
FSV517X300	DH517	TSV517X300	155,3	TCV517X300	181	DHV517X300	148	DKV150	9,9	SNV150-F-L
FSV617X300	DH617	TSV617X300	177,3	TCV617X300	203	DHV617X300	168	DKV180	17	SNV180-F-L
FSV517X300	DH517	TSV517X300	155,3	TCV517X300	181	DHV517X300	148	DKV150	9,9	SNV150-F-L
FSV617X300	DH517	TSV517X300	155,3	TCV517X300	181	DHV517X300	148	DKV150	9,9	SNV150-F-L
FSV617X300	DH617	TSV617X300	177,3	TCV617X300	203	DHV617X300	168	DKV180	17	SNV180-F-L
FSV617X300	DH617	TSV617X300	177,3	TCV617X300	203	DHV617X300	168	DKV180	17	SNV180-F-L



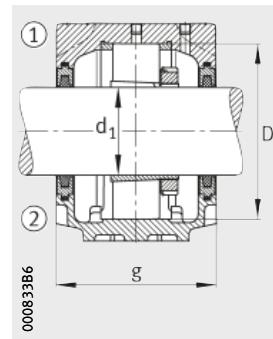
Double lip seal DH
Cover DKV



Labyrinth seal TSV



Taconite seal TCV



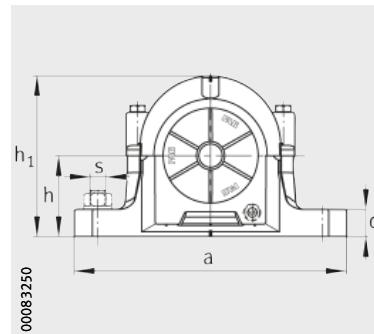
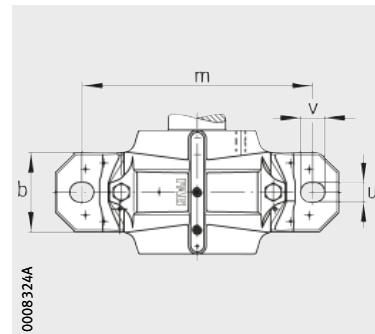
Felt seal FSV



Felt seal	Double lip seal	Housing						Cover	Mass m ≈ kg	Designation
		Labyrinth seal	g _L mm	Taconite seal	g _T mm	V ring seal	g _V mm			
FSV518	DH518	TSV518X302	160,3	TCV518X302	186	DHV518	153	DKV160	12,8	SNV160-F-L
FSV518	DH518	TSV518X302	170,3	TCV518X302	178	DHV518	163	DKV160	22	SNV190-F-L
FSV518	DH518	TSV518X302	160,3	TCV518X302	186	DHV518	153	DKV160	12,8	SNV160-F-L
FSV518	DH518	TSV518X302	170,3	TCV518X302	178	DHV518	163	DKV160	22	SNV190-F-L
FSV518	DH518	TSV518X302	170,3	TCV518X302	178	DHV518	163	DKV160	22	SNV190-F-L
FSV518	DH518	TSV518X302	160,3	TCV518X302	186	DHV518	153	DKV160	12,8	SNV160-F-L
FSV518	DH518	TSV518X302	160,3	TCV518X302	186	DHV518	153	DKV160	12,8	SNV160-F-L
FSV518	DH518	TSV518X302	170,3	TCV518X302	178	DHV518	163	DKV160	22	SNV190-F-L
FSV518	DH518	TSV518X302	170,3	TCV518X302	178	DHV518	163	DKV160	22	SNV190-F-L
FSV518	DH518	TSV518X302	170,3	TCV518X302	178	DHV518	163	DKV160	22	SNV190-F-L
FSV518	DH518	TSV518X302	160,3	TCV518X302	186	DHV518	153	DKV160	12,8	SNV160-F-L
FSV518X303	DH518	TSV518X303	160,3	TCV518X303	186	DHV518X303	153	DKV160	12,8	SNV160-F-L
FSV518X303	DH518	TSV518X303	170,3	TCV518X303	178	DHV518X303	163	DKV160	22	SNV190-F-L
FSV518X303	DH518	TSV518X303	160,3	TCV518X303	186	DHV518X303	153	DKV160	12,8	SNV160-F-L
FSV518X303	DH518	TSV518X303	170,3	TCV518X303	178	DHV518X303	163	DKV160	22	SNV190-F-L
FSV518X303	DH518	TSV518X303	170,3	TCV518X303	178	DHV518X303	163	DKV160	22	SNV190-F-L
FSV518X303	DH518	TSV518X303	160,3	TCV518X303	186	DHV518X303	153	DKV160	12,8	SNV160-F-L
FSV518X303	DH518	TSV518X303	160,3	TCV518X303	186	DHV518X303	153	DKV160	12,8	SNV160-F-L
FSV518X303	DH518	TSV518X303	170,3	TCV518X303	178	DHV518X303	163	DKV160	22	SNV190-F-L
FSV518X303	DH518	TSV518X303	170,3	TCV518X303	178	DHV518X303	163	DKV160	22	SNV190-F-L
FSV518X303	DH518	TSV518X303	160,3	TCV518X303	186	DHV518X303	153	DKV160	12,8	SNV160-F-L
FSV518X304	DH518X304	TSV518X304	160,3	TCV518X304	186	DHV518X304	153	DKV160	12,8	SNV160-F-L
FSV518X304	DH518X304	TSV518X304	170,3	TCV518X304	178	DHV518X304	163	DKV160	22	SNV190-F-L
FSV518X304	DH518X304	TSV518X304	160,3	TCV518X304	186	DHV518X304	153	DKV160	12,8	SNV160-F-L
FSV518X304	DH518X304	TSV518X304	170,3	TCV518X304	178	DHV518X304	163	DKV160	22	SNV190-F-L
FSV518X304	DH518X304	TSV518X304	170,3	TCV518X304	178	DHV518X304	163	DKV160	22	SNV190-F-L
FSV518X304	DH518X304	TSV518X304	160,3	TCV518X304	186	DHV518X304	153	DKV160	12,8	SNV160-F-L
FSV518X304	DH518X304	TSV518X304	160,3	TCV518X304	186	DHV518X304	153	DKV160	12,8	SNV160-F-L
FSV518X304	DH518X304	TSV518X304	170,3	TCV518X304	178	DHV518X304	163	DKV160	22	SNV190-F-L
FSV518X304	DH518X304	TSV518X304	170,3	TCV518X304	178	DHV518X304	163	DKV160	22	SNV190-F-L
FSV518X304	DH518X304	TSV518X304	170,3	TCV518X304	178	DHV518X304	163	DKV160	22	SNV190-F-L
FSV518X304	DH518X304	TSV518X304	160,3	TCV518X304	186	DHV518X304	153	DKV160	12,8	SNV160-F-L

Plummer block housings

SNV, split
For bearings with tapered bore and adapter sleeve
Inch size shaft

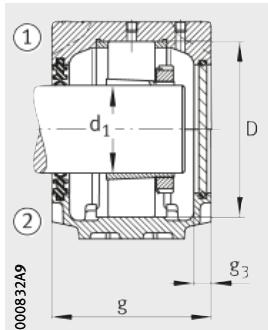


Dimension table (continued) · Dimensions in mm and inch

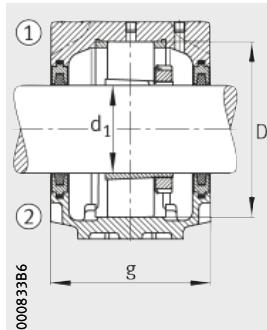
Shaft		Housing Dimensions											Bearing and accessories				
		d ₁	h	h ₁	g	b	c	a	m	v	u	s	D	g ₃	Bearing	Adapter sleeve	Locating ring
inch	mm		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	Quantity 2		
36/16	85,725	112	219	150	100	35	345	290	27	22	M20	3/4	170	16	1219-K	H219X306	FRM170/18
36/16	85,725	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	1319-K	H319X306	FRM200/17,5
36/16	85,725	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	21319..-K	H319X306	FRM200/17,5
36/16	85,725	112	219	150	100	35	345	290	27	22	M20	3/4	170	16	2219-K	H319X306	FRM170/12,5
36/16	85,725	112	219	150	100	35	345	290	27	22	M20	3/4	170	16	22219..-K	H319X306	FRM170/12,5
36/16	85,725	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	22319..-K	H2319X306	FRM200/6,5
36/16	85,725	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	2319-K	H2319X306	FRM200/6,5
37/16	87,313	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	1220-K	H220X307	FRM180/18
37/16	87,313	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	1320-K	H320X307	FRM215/19,5
37/16	87,313	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	20220-K	H220X307	FRM180/18
37/16	87,313	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	20320-K	H320X307	FRM215/19,5
37/16	87,313	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	21320..-K	H320X307	FRM215/19,5
37/16	87,313	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	2220-K	H320X307	FRM180/12
37/16	87,313	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	22220..-K	H320X307	FRM180/12
37/16	87,313	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	22320..-K	H2320X307	FRM215/6,5
37/16	87,313	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	2320-K	H2320X307	FRM215/6,5
37/16	87,313	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	23220..-K	H2320X307	FRM180/4,85
38/16	88,9	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	1220-K	H220X308	FRM180/18
38/16	88,9	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	1320-K	H320X308	FRM215/19,5
38/16	88,9	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	20220-K	H220X308	FRM180/18
38/16	88,9	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	20320-K	H320X308	FRM215/19,5
38/16	88,9	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	21320..-K	H320X308	FRM215/19,5
38/16	88,9	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	2220-K	H320X308	FRM180/12
38/16	88,9	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	22220..-K	H320X308	FRM180/12
38/16	88,9	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	22320..-K	H2320X308	FRM215/6,5
38/16	88,9	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	2320-K	H2320X308	FRM215/6,5
38/16	88,9	140	271	180	120	45	410	350	32	26	M24	7/8	180	16	23220..-K	H2320X308	FRM180/4,85

① Locating bearing; ② Non-locating bearing

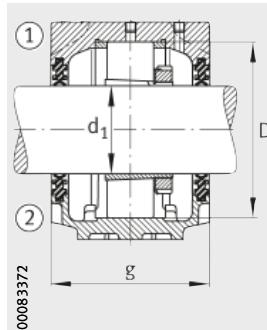
¹⁾ Housing with eye bolt.



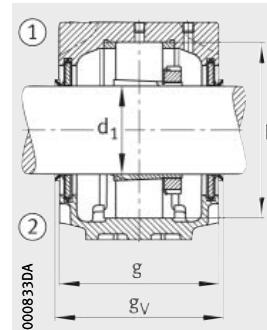
Double lip seal DH
Cover DKVT



Felt seal FSV



Double lip seal DH



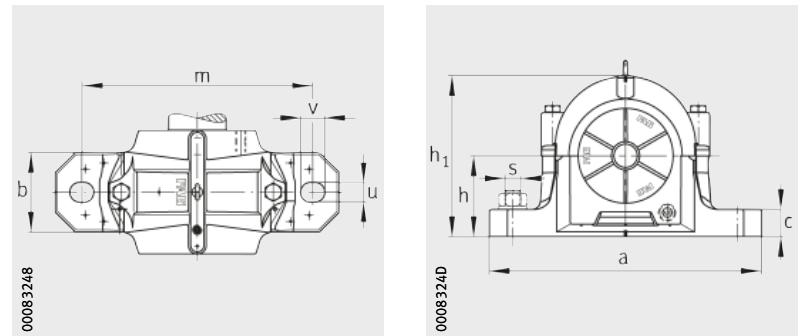
V ring seal DHV



Felt seal	Double lip seal	Housing						Cover	Mass m ≈ kg	Designation
		Labyrinth seal	g _L mm	Taconite seal	g _T mm	V ring seal	g _V mm			
FSV519	DH519	TSV519X306	167,3	TCV519X306	193	DHV519	158	DKV170	14,4	SNV170-F-L
FSV619	DH619	TSV619X306	192,3	TCV619X306	218	DHV619	183	DKV200	21	SNV200-F-L
FSV619	DH619	TSV619X306	192,3	TCV619X306	218	DHV619	183	DKV200	21	SNV200-F-L
FSV519	DH519	TSV519X306	167,3	TCV519X306	193	DHV519	158	DKV170	14,4	SNV170-F-L
FSV519	DH519	TSV519X306	167,3	TCV519X306	193	DHV519	158	DKV170	14,4	SNV170-F-L
FSV619	DH619	TSV619X306	192,3	TCV619X306	218	DHV619	183	DKV200	21	SNV200-F-L
FSV619	DH619	TSV619X306	192,3	TCV619X306	218	DHV619	183	DKV200	21	SNV200-F-L
FSV520X307	DH520X307	TSV520X307	177,3	TCV520X307	203	DHV520X307	168	DKV180	17	SNV180-F-L
FSV620X307	DH620X307	TSV620X307	197,3	TCV620X307	224	DHV620X307	188	DKV215	24,5	SNV215-F-L¹⁾
FSV520X307	DH520X307	TSV520X307	177,3	TCV520X307	203	DHV520X307	168	DKV180	17	SNV180-F-L
FSV620X307	DH620X307	TSV620X307	197,3	TCV620X307	224	DHV620X307	188	DKV215	24,5	SNV215-F-L¹⁾
FSV620X307	DH620X307	TSV620X307	197,3	TCV620X307	224	DHV620X307	188	DKV215	24,5	SNV215-F-L¹⁾
FSV520X307	DH520X307	TSV520X307	177,3	TCV520X307	203	DHV520X307	168	DKV180	17	SNV180-F-L
FSV520X307	DH520X307	TSV520X307	177,3	TCV520X307	203	DHV520X307	168	DKV180	17	SNV180-F-L
FSV620X307	DH620X307	TSV620X307	197,3	TCV620X307	224	DHV620X307	188	DKV215	24,5	SNV215-F-L¹⁾
FSV620X307	DH620X307	TSV620X307	197,3	TCV620X307	224	DHV620X307	188	DKV215	24,5	SNV215-F-L¹⁾
FSV520X308	DH520X308	TSV520X308	177,3	TCV520X308	203	DHV520X308	168	DKV180	17	SNV180-F-L
FSV620X308	DH620	TSV620X308	197,3	TCV620X308	224	DHV620	188	DKV215	24,5	SNV215-F-L¹⁾
FSV520X308	DH520X308	TSV520X308	177,3	TCV520X308	203	DHV520X308	168	DKV180	17	SNV180-F-L
FSV620X308	DH620	TSV620X308	197,3	TCV620X308	224	DHV620	188	DKV215	24,5	SNV215-F-L¹⁾
FSV520X308	DH520X308	TSV520X308	177,3	TCV520X308	203	DHV520X308	168	DKV180	17	SNV180-F-L
FSV620X308	DH620	TSV620X308	197,3	TCV620X308	224	DHV620	188	DKV215	24,5	SNV215-F-L¹⁾
FSV520X308	DH520X308	TSV520X308	177,3	TCV520X308	203	DHV520X308	168	DKV180	17	SNV180-F-L
FSV620X308	DH620	TSV620X308	197,3	TCV620X308	224	DHV620	188	DKV215	24,5	SNV215-F-L¹⁾
FSV520X308	DH520X308	TSV520X308	177,3	TCV520X308	203	DHV520X308	168	DKV180	17	SNV180-F-L

Plummer block housings

SNV, split
For bearings with tapered bore and adapter sleeve
Inch size shaft

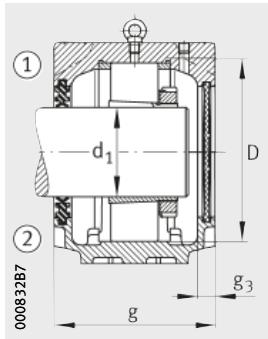


Dimension table (continued) · Dimensions in mm and inch

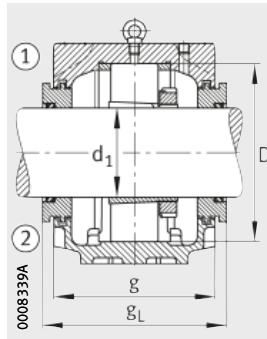
Shaft		Housing Dimensions												Bearing and accessories			
d ₁	inch	h	h ₁	g	b	c	a	m	v	u	s	D	g ₃	Bearing	Adapter sleeve	Locating ring	
	mm										mm	inch			Quantity 2		
3¹⁰/16	92,075	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	1220-K	H220X310	FRM180/18
3¹⁰/16	92,075	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	1320-K	H320X310	FRM215/19,5
3¹⁰/16	92,075	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	20220-K	H220X310	FRM180/18
3¹⁰/16	92,075	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	20320-K	H320X310	FRM215/19,5
3¹⁰/16	92,075	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	21320..-K	H320X310	FRM215/19,5
3¹⁰/16	92,075	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	2220-K	H320X310	FRM180/12
3¹⁰/16	92,075	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	22220..-K	H320X310	FRM180/12
3¹⁰/16	92,075	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	22320..-K	H2320X310	FRM215/6,5
3¹⁰/16	92,075	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	2320-K	H2320X310	FRM215/6,5
3¹⁰/16	92,075	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	23220..-K	H2320X310	FRM180/4,85
3¹¹/16	93,663	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	1220-K	H220X311	FRM180/18
3¹¹/16	93,663	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	1320-K	H320X311	FRM215/19,5
3¹¹/16	93,663	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	20220-K	H220X311	FRM180/18
3¹¹/16	93,663	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	20320-K	H320X311	FRM215/19,5
3¹¹/16	93,663	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	21320..-K	H320X311	FRM215/19,5
3¹¹/16	93,663	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	2220-K	H320X311	FRM180/12
3¹¹/16	93,663	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	22220..-K	H320X311	FRM180/12
3¹¹/16	93,663	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	22320..-K	H2320X311	FRM215/6,5
3¹¹/16	93,663	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	2320-K	H2320X311	FRM215/6,5
3¹¹/16	93,663	112	223	160	110	40	380	320	32	26	M24	7/8	180	16	23220..-K	H2320X311	FRM180/4,85
3¹²/16	95,25	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	1222-K	H222X312	FRM200/21
3¹²/16	95,25	150	298	185	130	50	450	390	35	28	M24	1	240	18	1322-K	H322X312	FRM240/20
3¹²/16	95,25	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	20222-K	H222X312	FRM200/21
3¹²/16	95,25	150	298	185	130	50	450	390	35	28	M24	1	240	18	21322..-K	H322X312	FRM240/20
3¹²/16	95,25	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	22222..-K	H322X312	FRM200/13,5
3¹²/16	95,25	150	298	185	130	50	450	390	35	28	M24	1	240	18	22322..-K	H2322X312	FRM240/5
3¹²/16	95,25	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	23222..-K	H2322X312	FRM200/5,1
3¹²/16	95,25	150	298	185	130	50	450	390	35	28	M24	1	240	18	2322-K	H2322X312	FRM240/5

① Locating bearing; ② Non-locating bearing

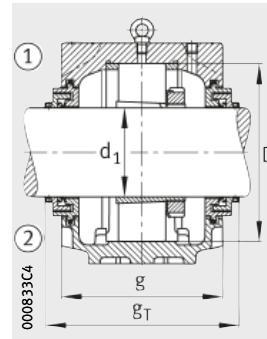
1) Housing without eye bolt.



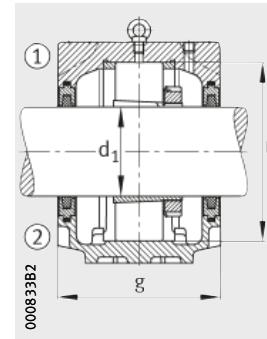
Double lip seal DH
Cover DKV



Labyrinth seal TSV



Taconite seal TCV



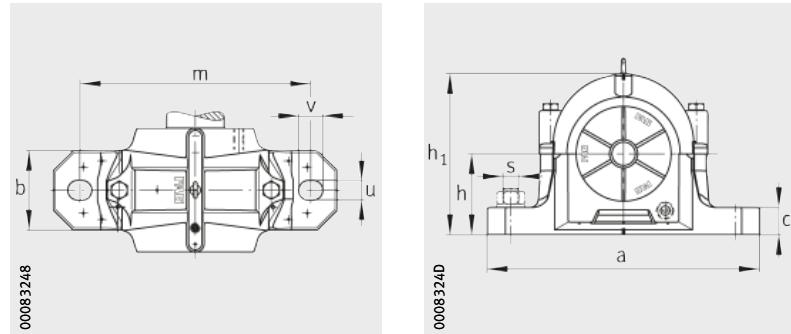
Felt seal FSV



Felt seal	Double lip seal	Housing						Cover	Mass m ≈ kg	Designation
		Labyrinth seal	g _L mm	Taconite seal	g _T mm	V ring seal	g _V mm			
FSV520X310	DH520X310	TSV520X310	177,3	TCV520X310	203	DHV520X310	168	DKV180	17	SNV180-F-L¹⁾
FSV620X310	DH620X310	TSV620X310	197,3	TCV620X310	224	DHV620X310	188	DKV215	24,5	SNV215-F-L
FSV520X310	DH520X310	TSV520X310	177,3	TCV520X310	203	DHV520X310	168	DKV180	17	SNV180-F-L¹⁾
FSV620X310	DH620X310	TSV620X310	197,3	TCV620X310	224	DHV620X310	188	DKV215	24,5	SNV215-F-L
FSV620X310	DH620X310	TSV620X310	197,3	TCV620X310	224	DHV620X310	188	DKV215	24,5	SNV215-F-L
FSV520X310	DH520X310	TSV520X310	177,3	TCV520X310	203	DHV520X310	168	DKV180	17	SNV180-F-L¹⁾
FSV520X310	DH520X310	TSV520X310	177,3	TCV520X310	203	DHV520X310	168	DKV180	17	SNV180-F-L¹⁾
FSV620X310	DH620X310	TSV620X310	197,3	TCV620X310	224	DHV620X310	188	DKV215	24,5	SNV215-F-L
FSV620X310	DH620X310	TSV620X310	197,3	TCV620X310	224	DHV620X310	188	DKV215	24,5	SNV215-F-L
FSV620X310	DH620X310	TSV620X310	197,3	TCV620X310	224	DHV620X310	188	DKV215	24,5	SNV215-F-L
FSV520X310	DH520X310	TSV520X310	177,3	TCV520X310	203	DHV520X310	168	DKV180	17	SNV180-F-L¹⁾
FSV520X311	DH520X310	TSV520X311	177,3	TCV520X311	203	DHV520X311	168	DKV180	17	SNV180-F-L¹⁾
FSV620X311	DH620X310	TSV620X311	197,3	TCV620X311	224	DHV620X311	188	DKV215	24,5	SNV215-F-L
FSV520X311	DH520X310	TSV520X311	177,3	TCV520X311	203	DHV520X311	168	DKV180	17	SNV180-F-L¹⁾
FSV620X311	DH620X310	TSV620X311	197,3	TCV620X311	224	DHV620X311	188	DKV215	24,5	SNV215-F-L
FSV620X311	DH620X310	TSV620X311	197,3	TCV620X311	224	DHV620X311	188	DKV215	24,5	SNV215-F-L
FSV520X311	DH520X310	TSV520X311	177,3	TCV520X311	203	DHV520X311	168	DKV180	17	SNV180-F-L¹⁾
FSV520X311	DH520X310	TSV520X311	177,3	TCV520X311	203	DHV520X311	168	DKV180	17	SNV180-F-L¹⁾
FSV620X311	DH620X310	TSV620X311	197,3	TCV620X311	224	DHV620X311	188	DKV215	24,5	SNV215-F-L
FSV620X311	DH620X310	TSV620X311	197,3	TCV620X311	224	DHV620X311	188	DKV215	24,5	SNV215-F-L
FSV520X311	DH520X310	TSV520X311	177,3	TCV520X311	203	DHV520X311	168	DKV180	17	SNV180-F-L¹⁾
FSV522X312	DH522X312	TSV522X312	195,3	TCV522X312	218	DHV522X312	183	DKV200	21	SNV200-F-L¹⁾
FSV522X312	DH522X312	TSV522X312	203,3	TCV522X312	226	DHV522X312	191	DKV200	32	SNV240-F-L
FSV522X312	DH522X312	TSV522X312	195,3	TCV522X312	218	DHV522X312	183	DKV200	21	SNV200-F-L¹⁾
FSV522X312	DH522X312	TSV522X312	203,3	TCV522X312	226	DHV522X312	191	DKV200	32	SNV240-F-L
FSV522X312	DH522X312	TSV522X312	195,3	TCV522X312	218	DHV522X312	183	DKV200	21	SNV200-F-L¹⁾
FSV522X312	DH522X312	TSV522X312	203,3	TCV522X312	226	DHV522X312	191	DKV200	32	SNV240-F-L
FSV522X312	DH522X312	TSV522X312	195,3	TCV522X312	218	DHV522X312	183	DKV200	21	SNV200-F-L¹⁾
FSV522X312	DH522X312	TSV522X312	203,3	TCV522X312	226	DHV522X312	191	DKV200	32	SNV240-F-L

Plummer block housings

SNV, split
For bearings with tapered bore and adapter sleeve
Inch size shaft

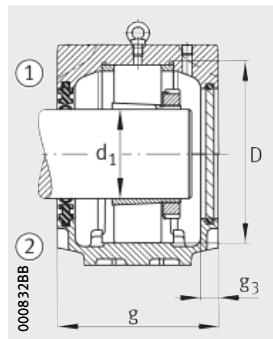


Dimension table (continued) · Dimensions in mm and inch

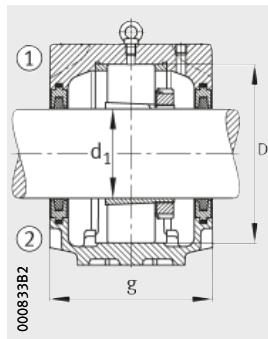
Shaft		Housing Dimensions												Bearing and accessories			
		d ₁	h	h ₁	g	b	c	a	m	v	u	s	D	g ₃	Bearing	Adapter sleeve	Locating ring
inch	mm														Quantity 2		
3 ¹⁴ /16	98,425	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	1222-K	H222X314	FRM200/21
3 ¹⁴ /16	98,425	150	298	185	130	50	450	390	35	28	M24	1	240	18	1322-K	H322X314	FRM240/20
3 ¹⁴ /16	98,425	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	20222-K	H222X314	FRM200/21
3 ¹⁴ /16	98,425	150	298	185	130	50	450	390	35	28	M24	1	240	18	21322--K	H322X314	FRM240/20
3 ¹⁴ /16	98,425	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	22222--K	H322X314	FRM200/13,5
3 ¹⁴ /16	98,425	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	2222-K	H322X314	FRM200/13,5
3 ¹⁴ /16	98,425	150	298	185	130	50	450	390	35	28	M24	1	240	18	22322--K	H2322X314	FRM240/5
3 ¹⁴ /16	98,425	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	23222--K	H2322X314	FRM200/5,1
3 ¹⁴ /16	98,425	150	298	185	130	50	450	390	35	28	M24	1	240	18	2322-K	H2322X314	FRM240/5
3 ¹⁵ /16	100,013	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	1222-K	H222X315	FRM200/21
3 ¹⁵ /16	100,013	150	298	185	130	50	450	390	35	28	M24	1	240	18	1322-K	H322X315	FRM240/20
3 ¹⁵ /16	100,013	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	20222-K	H222X315	FRM200/21
3 ¹⁵ /16	100,013	150	298	185	130	50	450	390	35	28	M24	1	240	18	21322--K	H322X315	FRM240/20
3 ¹⁵ /16	100,013	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	22222--K	H322X315	FRM200/13,5
3 ¹⁵ /16	100,013	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	2222-K	H322X315	FRM200/13,5
3 ¹⁵ /16	100,013	150	298	185	130	50	450	390	35	28	M24	1	240	18	22322--K	H2322X315	FRM240/5
3 ¹⁵ /16	100,013	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	23222--K	H2322X315	FRM200/5,1
3 ¹⁵ /16	100,013	150	298	185	130	50	450	390	35	28	M24	1	240	18	2322-K	H2322X315	FRM240/5
4	101,6	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	1222-K	H222X400	FRM200/21
4	101,6	150	298	185	130	50	450	390	35	28	M24	1	240	18	1322-K	H322X400	FRM240/20
4	101,6	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	20222-K	H222X400	FRM200/21
4	101,6	150	298	185	130	50	450	390	35	28	M24	1	240	18	21322--K	H322X400	FRM240/20
4	101,6	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	22222--K	H322X400	FRM200/13,5
4	101,6	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	2222-K	H322X400	FRM200/13,5
4	101,6	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	22322--K	H2322X400	FRM240/5
4	101,6	125	248	175	120	45	410	350	32	26	M24	7/8	200	16	23222--K	H2322X400	FRM200/5,1
4	101,6	150	298	185	130	50	450	390	35	28	M24	1	240	18	2322-K	H2322X400	FRM240/5
4 ³ /16	106,363	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	20224-K	H3024X403	FRM215/23
4 ³ /16	106,363	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	22224--K	H3124X403	FRM215/14
4 ³ /16	106,363	160	321	190	160	60	530	450	42	35	M30	1 1/4	260	18	22324--K	H2324X403	FRM260/5
4 ³ /16	106,363	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	23224--K	H2324X403	FRM215/5

① Locating bearing; ② Non-locating bearing

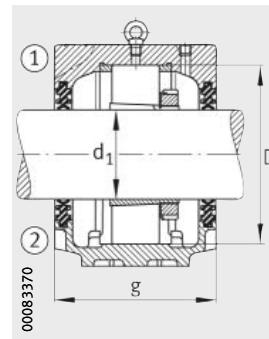
1) Housing without eye bolt.



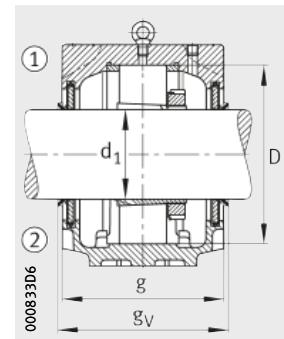
Double lip seal DH
Cover DKVT



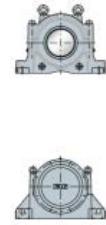
Felt seal FSV



Double lip seal DH



V ring seal DHV

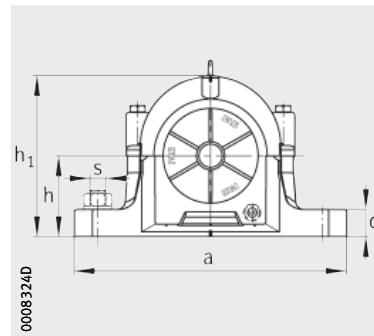
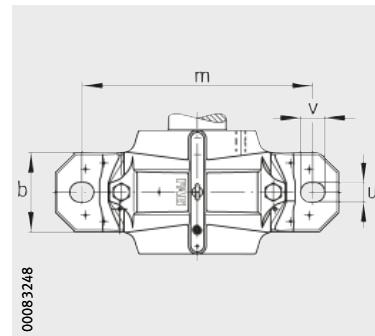


Housing										
Felt seal	Double lip seal	Labyrinth seal		Taconite seal		V ring seal		Cover	Mass m ≈ kg	Designation
			g _L mm		g _T mm		g _V mm			
FSV522X314	DH522X314	TSV522X314	195,3	TCV522X314	218	DHV522X314	183	DKV200	21	SNV200-F-L¹⁾
FSV522X314	DH522X314	TSV522X314	203,3	TCV522X314	226	DHV522X314	191	DKV200	32	SNV240-F-L
FSV522X314	DH522X314	TSV522X314	195,3	TCV522X314	218	DHV522X314	183	DKV200	21	SNV200-F-L¹⁾
FSV522X314	DH522X314	TSV522X314	203,3	TCV522X314	226	DHV522X314	191	DKV200	32	SNV240-F-L
FSV522X314	DH522X314	TSV522X314	195,3	TCV522X314	218	DHV522X314	183	DKV200	21	SNV200-F-L¹⁾
FSV522X314	DH522X314	TSV522X314	195,3	TCV522X314	218	DHV522X314	183	DKV200	21	SNV200-F-L¹⁾
FSV522X314	DH522X314	TSV522X314	203,3	TCV522X314	226	DHV522X314	191	DKV200	32	SNV240-F-L
FSV522X314	DH522X314	TSV522X314	195,3	TCV522X314	218	DHV522X314	183	DKV200	21	SNV200-F-L¹⁾
FSV522X314	DH522X314	TSV522X314	203,3	TCV522X314	226	DHV522X314	191	DKV200	32	SNV240-F-L
FSV522	DH522	TSV522	195,3	TCV522	218	DHV522	183	DKV200	21	SNV200-F-L¹⁾
FSV522	DH522	TSV522	203,3	TCV522	226	DHV522	191	DKV200	32	SNV240-F-L
FSV522	DH522	TSV522	195,3	TCV522	218	DHV522	183	DKV200	21	SNV200-F-L¹⁾
FSV522	DH522	TSV522	203,3	TCV522	226	DHV522	191	DKV200	32	SNV240-F-L
FSV522	DH522	TSV522	195,3	TCV522	218	DHV522	183	DKV200	21	SNV200-F-L¹⁾
FSV522	DH522	TSV522	195,3	TCV522	218	DHV522	183	DKV200	21	SNV200-F-L¹⁾
FSV522	DH522	TSV522	203,3	TCV522	226	DHV522	191	DKV200	32	SNV240-F-L
FSV522	DH522	TSV522	195,3	TCV522	218	DHV522	183	DKV200	21	SNV200-F-L¹⁾
FSV522	DH522	TSV522	203,3	TCV522	226	DHV522	191	DKV200	32	SNV240-F-L
FSV522X400	DH522	TSV522X400	195,3	TCV522X400	218	DHV522X400	183	DKV200	21	SNV200-F-L¹⁾
FSV522X400	DH522	TSV522X400	203,3	TCV522X400	226	DHV522X400	191	DKV200	32	SNV240-F-L
FSV522X400	DH522	TSV522X400	195,3	TCV522X400	218	DHV522X400	183	DKV200	21	SNV200-F-L¹⁾
FSV522X400	DH522	TSV522X400	203,3	TCV522X400	226	DHV522X400	191	DKV200	32	SNV240-F-L
FSV522X400	DH522	TSV522X400	195,3	TCV522X400	218	DHV522X400	183	DKV200	21	SNV200-F-L¹⁾
FSV522X400	DH522	TSV522X400	195,3	TCV522X400	218	DHV522X400	183	DKV200	21	SNV200-F-L¹⁾
FSV522X400	DH522	TSV522X400	203,3	TCV522X400	226	DHV522X400	191	DKV200	32	SNV240-F-L
FSV522X400	DH522	TSV522X400	195,3	TCV522X400	218	DHV522X400	183	DKV200	21	SNV200-F-L¹⁾
FSV522X400	DH522	TSV522X400	203,3	TCV522X400	226	DHV522X400	191	DKV200	32	SNV240-F-L
FSV524X403	DH524X403	TSV524X403	200,3	TCV524X403	227	DHV524X403	191	DKV215	24,5	SNV215-F-L
FSV524X403	DH524X403	TSV524X403	200,3	TCV524X403	227	DHV524X403	191	DKV215	24,5	SNV215-F-L
FSV524X403	DH524X403	TSV524X403	208,3	TCV524X403	235	DHV524X403	199	DKV215	48	SNV260-F-L
FSV524X403	DH524X403	TSV524X403	200,3	TCV524X403	227	DHV524X403	191	DKV215	24,5	SNV215-F-L

Plummer block housings

SNV, split

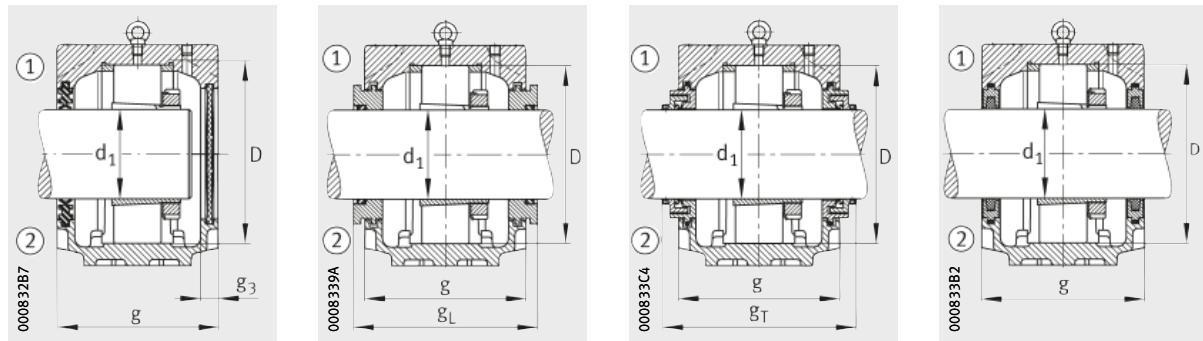
For bearings with tapered bore and adapter sleeve
Inch size shaft



Dimension table (continued) · Dimensions in mm and inch

Shaft		Housing Dimensions												Bearing and accessories			
		d ₁	h	h ₁	g	b	c	a	m	v	u	s	D	g ₃	Bearing	Adapter sleeve	Locating ring
inch	mm														Quantity 2		
4 ⁴ / ₁₆	107,95	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	20224-K	H3024X404	FRM215/23
4 ⁴ / ₁₆	107,95	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	22224..-K	H3124X404	FRM215/14
4 ⁴ / ₁₆	107,95	160	321	190	160	60	530	450	42	35	M30	1 1/4	260	18	22324..-K	H2324X404	FRM260/5
4 ⁴ / ₁₆	107,95	140	271	180	120	45	410	350	32	26	M24	7/8	215	16	23224..-K	H2324X404	FRM215/5
4 ⁷ / ₁₆	112,713	150	291	190	130	50	445	380	35	28	M24	1	230	18	20226-K	H3026X407	FRM230/25
4 ⁷ / ₁₆	112,713	150	291	190	130	50	445	380	35	28	M24	1	230	18	22226..-K	H3126X407	FRM230/13
4 ⁷ / ₁₆	112,713	170	344	205	160	60	550	470	42	35	M30	1 1/4	280	18	22326..-K	H2326X407	FRM280/5
4 ⁷ / ₁₆	112,713	150	291	190	130	50	445	380	35	28	M24	1	230	18	23226..-K	H2326X407	FRM230/5
4 ⁸ / ₁₆	114,3	150	291	190	130	50	445	380	35	28	M24	1	230	18	20226-K	H3026X408	FRM230/25
4 ⁸ / ₁₆	114,3	150	291	190	130	50	445	380	35	28	M24	1	230	18	22226..-K	H3126X408	FRM230/13
4 ⁸ / ₁₆	114,3	170	344	205	160	60	550	470	42	35	M30	1 1/4	280	18	22326..-K	H2326X408	FRM280/5
4 ⁸ / ₁₆	114,3	150	291	190	130	50	445	380	35	28	M24	1	230	18	23226..-K	H2326X408	FRM230/5
4 ¹² / ₁₆	120,65	150	291	190	130	50	445	380	35	28	M24	1	230	18	20226-K	H3026X412	FRM230/25
4 ¹² / ₁₆	120,65	150	291	190	130	50	445	380	35	28	M24	1	230	18	22226..-K	H3126X412	FRM230/13
4 ¹² / ₁₆	120,65	170	344	205	160	60	550	470	42	35	M30	1 1/4	280	18	22326..-K	H2326X412	FRM280/5
4 ¹² / ₁₆	120,65	150	291	190	130	50	445	380	35	28	M24	1	230	18	23226..-K	H2326X412	FRM230/5
4 ¹⁵ / ₁₆	125,413	150	304	200	150	50	500	420	42	35	M30	1 1/4	250	18	20228-K	H3028X415	FRM250/28
4 ¹⁵ / ₁₆	125,413	150	304	200	150	50	500	420	42	35	M30	1 1/4	250	18	22228..-K	H3128X415	FRM250/15
4 ¹⁵ / ₁₆	125,413	180	366	215	170	65	620	520	42	35	M30	1 1/4	300	18	22328..-K	H2328X415	FRM300/5
4 ¹⁵ / ₁₆	125,413	150	304	200	150	50	500	420	42	35	M30	1 1/4	250	18	23228..-K	H2328X415	FRM250/5
5	127	150	304	200	150	50	500	420	42	35	M30	1 1/4	250	18	20228-K	H3028X500	FRM250/28
5	127	150	304	200	150	50	500	420	42	35	M30	1 1/4	250	18	22228..-K	H3128X500	FRM250/15
5	127	180	366	215	170	65	620	520	42	35	M30	1 1/4	300	18	22328..-K	H2328X500	FRM300/5
5	127	150	304	200	150	50	500	420	42	35	M30	1 1/4	250	18	23228..-K	H2328X500	FRM250/5

(1) Locating bearing; (2) Non-locating bearing

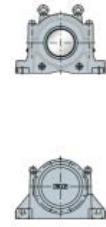


Double lip seal DH
Cover DKV

Labyrinth seal TSV

Taconite seal TCV

Felt seal FSV

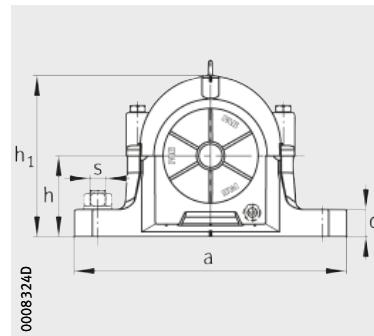
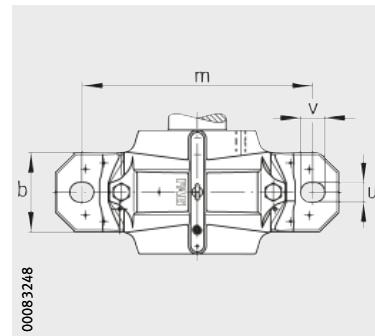


Felt seal	Double lip seal	Housing						Cover	Mass m ≈ kg	Designation
		Labyrinth seal		Taconite seal		V ring seal				
		g _L mm		g _T mm		g _V mm				
FSV524X404	DH524X403	TSV524X404	200,3	TCV524X404	227	DHV524X404	191	DKV215	24,5	SNV215-F-L
FSV524X404	DH524X403	TSV524X404	200,3	TCV524X404	227	DHV524X404	191	DKV215	24,5	SNV215-F-L
FSV524X404	DH524X403	TSV524X404	208,3	TCV524X404	235	DHV524X404	199	DKV215	48	SNV260-F-L
FSV524X404	DH524X403	TSV524X404	200,3	TCV524X404	227	DHV524X404	191	DKV215	24,5	SNV215-F-L
FSV526X407	DH526X407	TSV526X407	208,3	TCV526X407	235	DHV526X407	199	DKV230	30	SNV230-F-L
FSV526X407	DH526X407	TSV526X407	208,3	TCV526X407	235	DHV526X407	199	DKV230	30	SNV230-F-L
FSV526X407	DH526X407	TSV526X407	223,3	TCV526X407	250	DHV526X407	214	DKV230	55	SNV280-F-L
FSV526X407	DH526X407	TSV526X407	208,3	TCV526X407	235	DHV526X407	199	DKV230	30	SNV230-F-L
FSV526	DH526	TSV526X408	208,3	TCV526	235	DHV526	199	DKV230	30	SNV230-F-L
FSV526	DH526	TSV526X408	208,3	TCV526	235	DHV526	199	DKV230	30	SNV230-F-L
FSV526	DH526	TSV526X408	223,3	TCV526	250	DHV526	214	DKV230	55	SNV280-F-L
FSV526	DH526	TSV526X408	208,3	TCV526	235	DHV526	199	DKV230	30	SNV230-F-L
FSV526X412	DH526X412	TSV526X412	208,3	TCV526X412	235	DHV526X412	199	DKV230	30	SNV230-F-L
FSV526X412	DH526X412	TSV526X412	208,3	TCV526X412	235	DHV526X412	199	DKV230	30	SNV230-F-L
FSV526X412	DH526X412	TSV526X412	223,3	TCV526X412	250	DHV526X412	214	DKV230	55	SNV280-F-L
FSV526X412	DH526X412	TSV526X412	208,3	TCV526X412	235	DHV526X412	199	DKV230	30	SNV230-F-L
FSV528	DH528	TSV528X415	218,3	TCV528X415	245	DHV528	209	DKV250	38	SNV250-F-L
FSV528	DH528	TSV528X415	218,3	TCV528X415	245	DHV528	209	DKV250	38	SNV250-F-L
FSV528	DH528	TSV528X415	233,3	TCV528X415	260	DHV528	224	DKV250	70	SNV300-F-L
FSV528	DH528	TSV528X415	218,3	TCV528X415	245	DHV528	209	DKV250	38	SNV250-F-L
FSV528X500	DH528	TSV528X500	218,3	TCV528X500	245	DHV528X500	209	DKV250	38	SNV250-F-L
FSV528X500	DH528	TSV528X500	218,3	TCV528X500	245	DHV528X500	209	DKV250	38	SNV250-F-L
FSV528X500	DH528	TSV528X500	233,3	TCV528X500	260	DHV528X500	224	DKV250	70	SNV300-F-L
FSV528X500	DH528	TSV528X500	218,3	TCV528X500	245	DHV528X500	209	DKV250	38	SNV250-F-L

Plummer block housings

SNV, split

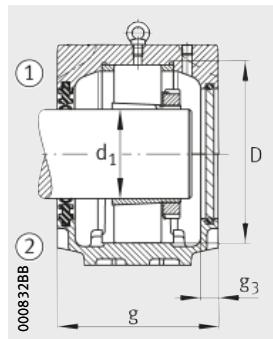
For bearings with tapered bore and adapter sleeve
Inch size shaft



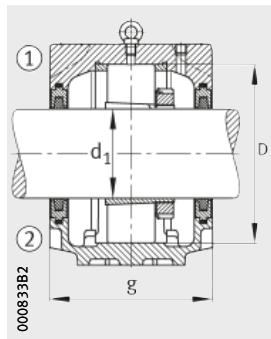
Dimension table (continued) · Dimensions in mm and inch

Shaft		Housing Dimensions											Bearing and accessories				
		d ₁	h	h ₁	g	b	c	a	m	v	u	s	D	g ₃	Bearing	Adapter sleeve	Locating ring
inch	mm														Quantity 2		
5 ³ / ₁₆	131,763	160	328	215	160	60	530	450	42	35	M30	1 ¹ / ₄	270	18	20230-K	H3030X503	FRM270/30,5
5 ³ / ₁₆	131,763	160	328	215	160	60	530	450	42	35	M30	1 ¹ / ₄	270	18	22230..-K	H3130X503	FRM270/16,5
5 ³ / ₁₆	131,763	190	386	225	180	65	650	560	42	35	M30	1 ¹ / ₄	320	18	22330..-K	H2330X503	FRM320/5
5 ³ / ₁₆	131,763	160	328	215	160	60	530	450	42	35	M30	1 ¹ / ₄	270	18	23230..-K	H2330X503	FRM270/5
5 ⁴ / ₁₆	133,35	160	328	215	160	60	530	450	42	35	M30	1 ¹ / ₄	270	18	20230-K	H3030X504	FRM270/30,5
5 ⁴ / ₁₆	133,35	160	328	215	160	60	530	450	42	35	M30	1 ¹ / ₄	270	18	22230..-K	H3130X504	FRM270/16,5
5 ⁴ / ₁₆	133,35	190	386	225	180	65	650	560	42	35	M30	1 ¹ / ₄	320	18	22330..-K	H2330X504	FRM320/5
5 ⁴ / ₁₆	133,35	160	328	215	160	60	530	450	42	35	M30	1 ¹ / ₄	270	18	23230..-K	H2330X504	FRM270/5
5 ⁷ / ₁₆	138,113	170	351	225	160	60	550	470	42	35	M30	1 ¹ / ₄	290	18	20232-K	H3032X507	FRM290/33
5 ⁷ / ₁₆	138,113	170	351	225	160	60	550	470	42	35	M30	1 ¹ / ₄	290	18	22232..-K	H3132X507	FRM290/17
5 ⁷ / ₁₆	138,113	200	406	235	190	70	680	580	50	42	M36	1 ¹ / ₄	340	18	22332-K	H2332X507	FRM340/5
5 ⁷ / ₁₆	138,113	170	351	225	160	60	550	470	42	35	M30	1 ¹ / ₄	290	18	23232..-K	H2332X507	FRM290/5
5 ⁸ / ₁₆	139,7	170	351	225	160	60	550	470	42	35	M30	1 ¹ / ₄	290	18	20232-K	H3032X508	FRM290/33
5 ⁸ / ₁₆	139,7	170	351	225	160	60	550	470	42	35	M30	1 ¹ / ₄	290	18	22232..-K	H3132X508	FRM290/17
5 ⁸ / ₁₆	139,7	200	406	235	190	70	680	580	50	42	M36	1 ¹ / ₄	340	18	22332-K	H2332X508	FRM340/5
5 ⁸ / ₁₆	139,7	170	351	225	160	60	550	470	42	35	M30	1 ¹ / ₄	290	18	23232..-K	H2332X508	FRM290/5

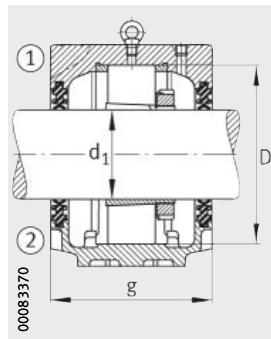
① Locating bearing; ② Non-locating bearing



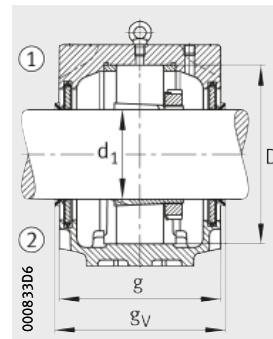
Double lip seal DH
Cover DKVT



Felt seal FSV



Double lip seal DH



V ring seal DHV



Felt seal	Double lip seal	Housing						Cover	Mass m ≈ kg	Designation
		Labyrinth seal	g _L mm	Taconite seal	g _T mm	V ring seal	g _V mm			
FSV530X503	DH530X503	TSV530X503	233,3	TCV530X503	260	DHV530X503	224	DKV270	45,5	SNV270-F-L
FSV530X503	DH530X503	TSV530X503	233,3	TCV530X503	260	DHV530X503	224	DKV270	45,5	SNV270-F-L
FSV530X503	DH530X503	TSV530X503	243,3	TCV530X503	270	DHV530X503	234	DKV270	95	SNV320-F-L
FSV530X503	DH530X503	TSV530X503	233,3	TCV530X503	260	DHV530X503	224	DKV270	45,5	SNV270-F-L
FSV530X504	DH530X504	TSV530X504	233,3	TCV530X504	260	DHV530X504	224	DKV270	45,5	SNV270-F-L
FSV530X504	DH530X504	TSV530X504	233,3	TCV530X504	260	DHV530X504	224	DKV270	45,5	SNV270-F-L
FSV530X504	DH530X504	TSV530X504	243,3	TCV530X504	270	DHV530X504	234	DKV270	95	SNV320-F-L
FSV530X504	DH530X504	TSV530X504	233,3	TCV530X504	260	DHV530X504	224	DKV270	45,5	SNV270-F-L
FSV532X507	DH532X507	TSV532X507	243,3	TCV532X507	270	DHV532X507	234	DKV290	53,8	SNV290-F-L
FSV532X507	DH532X507	TSV532X507	243,3	TCV532X507	270	DHV532X507	234	DKV290	53,8	SNV290-F-L
FSV532X507	DH532X507	TSV532X507	253,3	TCV532X507	298	DHV532X507	244	DKV290	115	SNV340-F-L
FSV532X507	DH532X507	TSV532X507	243,3	TCV532X507	270	DHV532X507	234	DKV290	53,8	SNV290-F-L
FSV532	DH532	TSV532	243,3	TCV532	270	DHV532	234	DKV290	53,8	SNV290-F-L
FSV532	DH532	TSV532	243,3	TCV532	270	DHV532	234	DKV290	53,8	SNV290-F-L
FSV532	DH532	TSV532	253,3	TCV532	298	DHV532	244	DKV290	115	SNV340-F-L
FSV532	DH532	TSV532	243,3	TCV532	270	DHV532	234	DKV290	53,8	SNV290-F-L

FAG



Split plummer block housings S30

Split plummer block housings S30

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Product overview Split plummer block housings S30

Plummer block housings
Split

S30..-N-FZ-AB



00081B4D

Accessories
Covers

DK



000822F5

Locating rings

FRM



00081ECD

Split plummer block housings S30



Features Split plummer block housings S30 can be used for various applications, such as sintering and pelletising equipment as well as paper processing machinery.



Suitable bearings The dimensions of split plummer block housings S30 are matched to spherical roller bearings 230, see table. The range of shaft diameters is between 110 mm and 150 mm.



Bearing type and sizes

Bearing type	Size
Spherical roller bearings	23024..-K to 23034..-K
<input type="checkbox"/> with tapered bore and adapter sleeve	
<input type="checkbox"/> with cylindrical bore	23024 to 23034

Split spherical roller bearings

Unsplit spherical roller bearings with an adapter sleeve can be replaced by split spherical roller bearings. This gives a considerable reduction in the work associated with bearing replacement in numerous applications.

In order to ensure selection of the correct combination of housing and bearing, please contact us.

Further information

Housing materials and anti-corrosion protection The standard material for the housing bodies is flake graphite cast iron (suffix L). By agreement, housing bodies made from spheroidal graphite cast iron (suffix D) or cast steel (suffix S) are available.

All outer surfaces not machined by chip-forming methods have a universal paint coating (colour RAL 7031, bluish-grey). The coating can be finished using all synthetic resin, polyurethane, acrylic, epoxy resin, chlorinated rubber, nitrocellulose and acid-hardening hammer tone finishes.

Inner and outer surfaces machined by chip-forming methods are provided with anti-corrosion protection that can be easily removed. It is recommended that only volatile solvents and lint-free cloths should be used.

Locating and non-locating bearings

The bearing seats in the housing are machined such that the bearings are movable in the housing and can thus function as non-locating bearings. Locating bearing arrangements can be achieved by the insertion of a locating ring FRM adjacent to the bearing outer ring. Locating rings must be ordered separately.

Split plummer block housings S30

Seals and covers

Plummer block housings S30 are sealed by means of felt seals, *Figure 1*. The felt seals allow shaft misalignment of up to $0,5^\circ$ in both directions and are suitable for grease lubrication.

The oil-soaked felt strips must be inserted in the associated slots in the housing. In the case of a housing closed on one side, 2 felt strips are inserted, while 4 felt strips are necessary in the case of a continuous shaft.

In the case of a housing closed on one side, a cover DK is inserted in the slots instead of the felt strips. Covers DK are made from polyamide. They must be ordered separately.

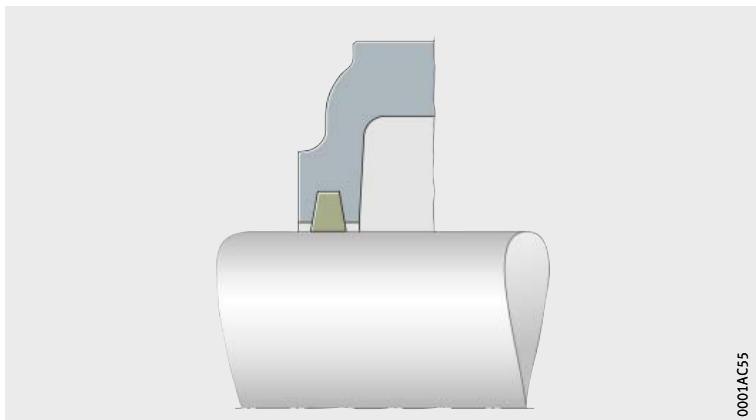


Figure 1
Felt seal
for plummer block housing S30

Housing configurations

The modular structure of plummer block housings S30 facilitates numerous possible combinations, *Figure 2* to *Figure 5*, page 135.

On the basis of the standard components, the following features can be varied in the housing configuration:

- location of bearings with a tapered bore by means of an adapter sleeve on a shaft of constant diameter or of bearings with a cylindrical bore directly on a stepped shaft
- continuous shaft or a housing closed on one side
- design of the bearing arrangement as a locating bearing arrangement or a non-locating bearing arrangement
- spherical roller bearing in a split or unsplit design.

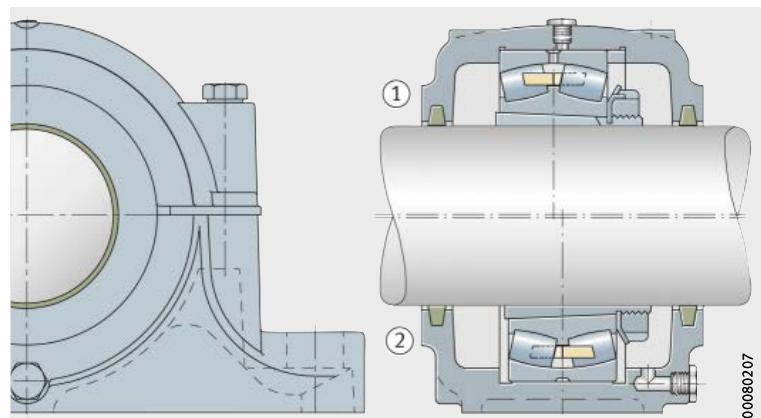
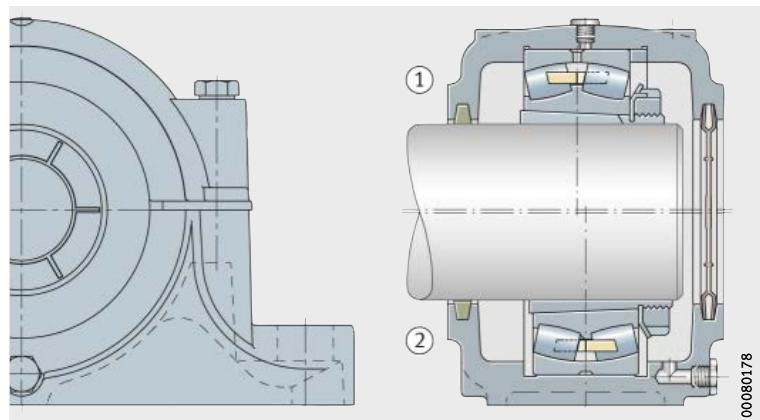


Figure 2
Plummer block housing S30, split,
for bearings with tapered bore and
adapter sleeve

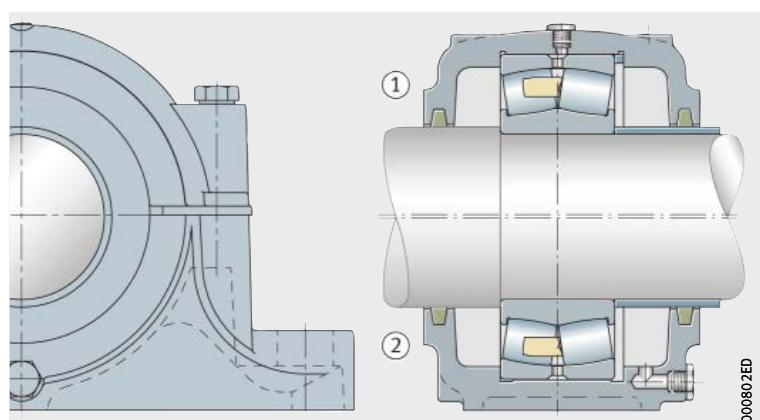
- ① Locating bearing
② Non-locating bearing

Figure 3
Plummer block housing S30
for bearings with tapered bore and
adapter sleeve (felt seal and cover DK)



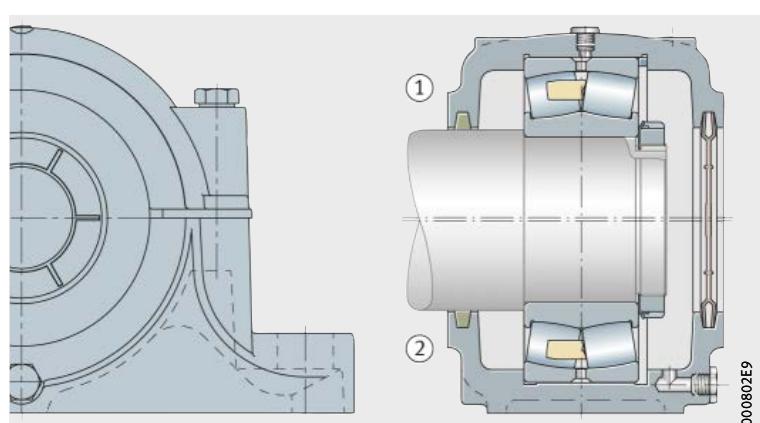
- ① Locating bearing
② Non-locating bearing

Figure 4
Plummer block housing S30
for bearings with cylindrical bore
(felt seals on both sides)



- ① Locating bearing
② Non-locating bearing

Figure 5
Plummer block housing S30
for bearings with cylindrical bore
(felt seal and cover DK)



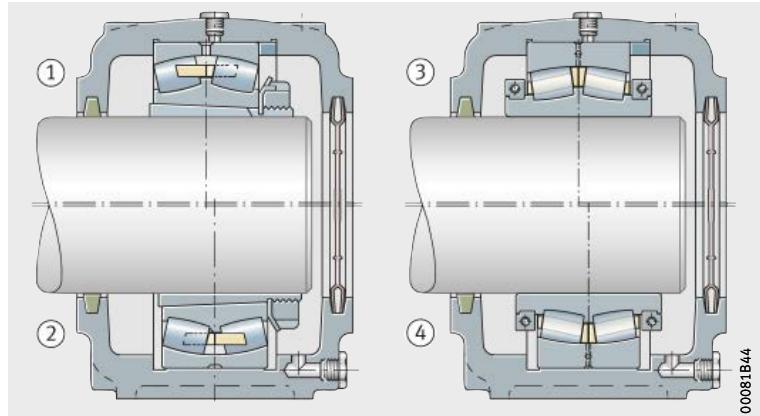
Split plummer block housings S30

Mounting of split spherical roller bearings

In the case of plummer block housings S30, an unsplit spherical roller bearing with a tapered bore and adapter sleeve can be replaced by a split spherical roller bearing, *Figure 6*.

- ① Locating bearing with unsplit bearing
- ② Non-locating bearing with unsplit bearing
- ③ Locating bearing with split bearing
- ④ Non-locating bearing with split bearing

Figure 6
Plummer block housings S30
with split and unsplit
spherical roller bearing



Lubrication

Grease quantities

Split plummer block housings S30 are designed for grease lubrication.

For initial greasing, the basic rule is that the bearing should be filled with grease to 100% and the free volume of the housing to 60%. This is the basis for the recommended grease quantities, see table. The free volume is the space that remains in the housing once the bearing, adapter sleeve, shaft and seals have been fitted.

Recommended grease quantity

Housing	Grease quantity Initial greasing ≈ g
S3024	390
S3026	560
S3028	630
S3030	730
S3032	970
S3034	1 100

Relubrication

The top of the housing has a threaded hole M10×1. In the delivered condition, this is closed off using a plastic stopper. For relubrication, a taper type or button type lubrication nipple can be screwed into place here. In the case of plummer block housings S30, the lubrication nipples are not included in the scope of delivery.

Designation structure

Designation structure of plummer block housings S30

The designation structure for split plummer block housings S30 and accessories is shown in the tables and *Figure 7* to *Figure 9*, page 138.



Feature	Code	Description
① Series	S30	Split plummer block housings S30
② Bore code of bearing	24	Bore diameter ($24 \cdot 5$) mm = 120 mm
③ Bearing bore	H	Tapered bearing bore and adapter sleeve
	Z	Cylindrical bearing bore
④ Housing design	N	Normal design (without grease valve)
⑤ Type of seal	FZ	Felt seal
⑥ Housing concept	AB	Housing body only, to be supplemented by covers and locating rings
⑦ Housing material	L	Flake graphite cast iron (standard)
	D	Spheroidal graphite cast iron
	S	Cast steel

Figure 7
Designation structure
of plummer block housings S30,
example



Split plummer block housings S30

Designation structure of covers

Feature	Code	Description
① Series	DK	Cover
② Cover size	127-135	Permissible diameter range for felt locating slot in housing



000834BA

Figure 8
Designation structure of covers,
example

Designation structure of locating rings

Feature	Code	Description
① Series	FRM	Locating ring
② Outside diameter	180	Outside diameter 180 mm
③ Width	10	Width 10 mm



00082242

Figure 9
Designation structure
of locating rings,
example

Ordering examples

When a split plummer block housing S30 is ordered, the housing designation only describes the housing body. The other components such as covers or locating rings must be ordered separately in the specific design required. The rolling bearing and, if necessary, the adapter sleeve must also be ordered separately.



Plummer block housings S30 with a bearing fitted give non-locating bearing arrangements. These can be converted into locating bearing arrangements through the additional insertion of locating rings FRM.



The ordering examples show the construction of orders for selected housing combinations and the appropriate bearings. The allocation of housings, bearings and accessories for all housing sizes is shown in the dimension tables.



The felt strips for sealing the housing are included in the scope of delivery and need not be ordered separately.

Example 1

Plummer block housing S30 made from flake graphite cast iron, closed on one side, spherical roller bearing 23024-E1-K-TVPB as non-locating bearing, location by means of adapter sleeve, felt seal.

Order	1 plummer block housing S3024-H-N-FZ-AB-L
	1 spherical roller bearing 23024-E1-K-TVPB
	1 adapter sleeve H3024
	1 locating ring FRM180/10
	1 cover DK127-135

Example 2

Plummer block housing S30 made from flake graphite cast iron, for continuous shaft, spherical roller bearing 23034-E1-TVPB as non-locating bearing, felt seal.

Order	1 plummer block housing S3034-Z-N-FZ-AB-L
	1 spherical roller bearing 23034-E1-TVPB

Split plummer block housings S30

Design and safety guidelines Load carrying capacity

Guide values have been determined for the rupture load of plummer block housings S30 and the maximum load carrying capacity of connecting screws for the upper and lower housing sections, *Figure 10* and table, page 141. The guide values are valid for purely static loading.

The guide values for housing rupture load are valid for the standard housing material flake graphite cast iron (suffix L). For spheroidal graphite cast iron (suffix D) a factor of 1,6 should be applied.

The guide values in the table, page 141, are only valid if the flatness of the mounting surface in accordance with DIN EN ISO 1101 corresponds to the tolerance grade IT7 in accordance with DIN EN ISO 286-1 (measured across the diagonal). A precondition for supporting loads is that the housing base surface is completely and rigidly supported.

When determining the permissible static load, safety factors must be applied:

- safety factor of 6 relative to the housing rupture load
- safety factor of 3 relative to the maximum load carrying capacity of the connecting screws.



The housing must not be subjected to an axial load of more than 35% of the housing rupture load F_{180° .

If the housing is subjected to axial load, the permissible axial load of the bearing fitted must be taken into consideration. If the bearing is located on the shaft using an adapter sleeve, the axial retaining force of the bearing and adapter sleeve must also be taken into consideration.

If the load direction is between 55° and 120° or axial load is present, we recommend that the housings should be secured in the load direction by means of stops or dowels.

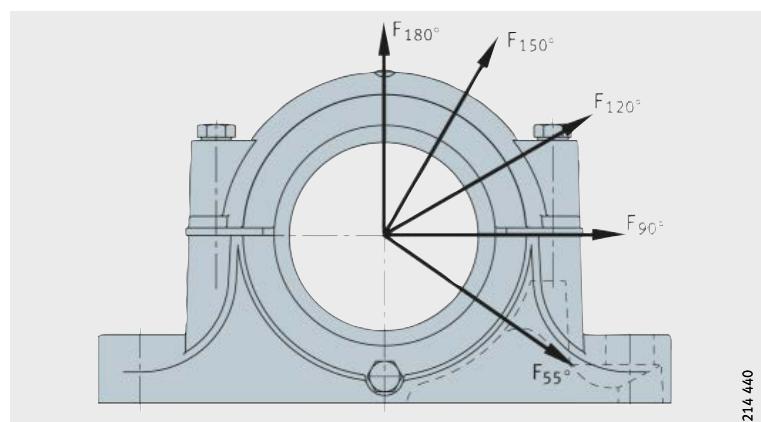


Figure 10
Load directions F
for the guide values
for the housing rupture load
and the maximum load carrying capacity
of the connecting screws

**Guide values
for housing rupture load and
maximum load carrying capacity
of connecting screws**

Housing Design- nation	Housing rupture load in load direction F Housing made from flake graphite cast iron					Connecting screws			
	55° kN	90° kN	120° kN	150° kN	180° kN	Thread to DIN 13 Material 8.8	Maximum load carrying capacity of both screws with contact between parting surfaces in load direction	120° kN	150° kN
S3024	540	320	245	215	270	M20	260	150	130
S3026	620	370	280	250	310	M20	260	150	130
S3028	700	420	315	280	350	M20	260	150	130
S3030	780	470	350	310	390	M20	260	150	130
S3032	860	520	390	345	430	M20	260	150	130
S3034	1 000	600	450	400	500	M24	360	210	180

Housings made from spheroidal graphite cast iron (suffix D) have a housing rupture load 1,6 times higher than that of housings made from flake graphite cast iron.



Eye bolts

In the case of housings S3034, the upper housing section has an eye bolt in accordance with DIN 580. This is intended as a locating point for mounting and dismantling of the housing. The load carrying capacity of the eye bolt allows lifting of the housing including a bearing fitted in the housing.



The eye bolt must always be screwed fully into the housing.

The eye bolt must not be subjected to a mass greater than that of the housing together with the bearing fitted in the housing.

Foot screws

Foot screws are used for screw mounting of the housing to the locating surface. They are not included in the scope of delivery of the housings.

The appropriate screw size for each housing is stated, see dimension tables.

The associated tightening torques are stated for screws with a metric thread in accordance with DIN 13, DIN 962 and DIN ISO 965-2, see table, page 42.

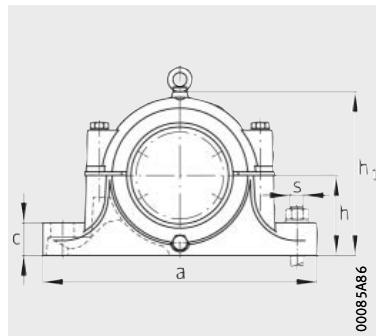
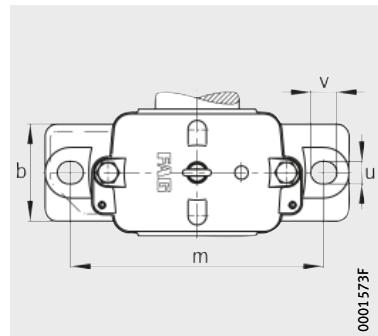
Accuracy

The bearing seat in split plummer block housings S30 is machined to the tolerance class H7.

By agreement, the housings can also be supplied with other tolerance classes for the bearing seat, see section Tolerance class of bearing seat, page 47.

Plummer block housings

S30, split
For spherical roller bearings
with tapered bore and
adapter sleeve



Dimension table · Dimensions in mm

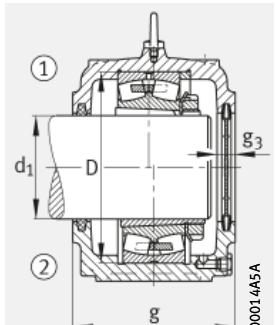
Shaft d_1	Housing Dimensions											D	g_3
	h	h_1	g	b	c	a	m	v	u	s	mm	inch	
110	112	215	150	110	40	390	320	36	30	M24	1	180	18
115	125	239	160	120	45	420	350	36	30	M24	1	200	18
125	140	259	170	120	45	420	350	36	30	M24	1	210	21
135	150	278	175	130	45	460	380	36	30	M24	1	225	21
140	150	288	190	130	50	470	390	36	30	M24	1	240	21
150	160	320	200	160	55	540	450	48	36	M30	1 1/8	260	25

① Locating bearing; ② Non-locating bearing

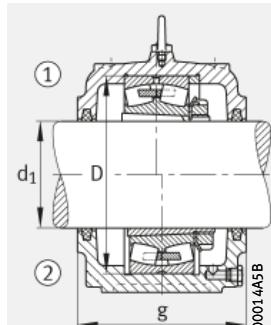
1) The felt strips are supplied by the metre and cut to the appropriate length on site.

2) Quantity of felt strips required: In the case of a housing closed on one side/in the case of a continuous shaft.

3) Housing without eye bolt.



Felt strip
Cover DK



Felt strip



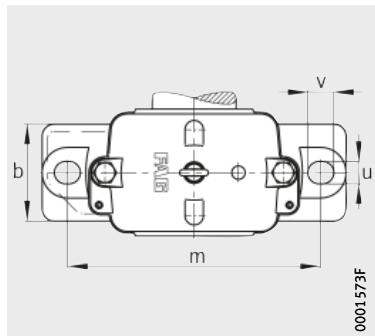
Spherical roller bearing and accessories

Housing

Bearing	Adapter sleeve	Locating ring	Cover	Felt strip ¹⁾ (length 1 000 mm)		Mass m ≈ kg	Designation
				Designation	Quantity ²⁾		
23024..-K	H3024	FRM180/10	DK127-135	STRS153401-1-10X8,5-F2	1/1	16,5	S3024-H-N-FZ-AB-L³⁾
23026..-K	H3026	FRM200/10	DK127-135	STRS153401-1-10X8,5-F2	1/1	19,3	S3026-H-N-FZ-AB-L³⁾
23028..-K	H3028	FRM210/10	DK147-155	STRS153401-1-14X11-F2	1/1	24,6	S3028-H-N-FZ-AB-L³⁾
23030..-K	H3030	FRM225/10	DK156-163	STRS153401-1-14X11-F2	1/2	29	S3030-H-N-FZ-AB-L³⁾
23032..-K	H3032(-HG)	FRM240/10	DK166-182	STRS153401-1-14X11-F2	1/2	37	S3032-H-N-FZ-AB-L³⁾
23034..-K	H3034(-HG)	FRM260/10	DK166-182	STRS153401-1-16X12-F2	1/2	45	S3034-H-N-FZ-AB-L

Plummer block housings

S30, split
For spherical roller bearings
with cylindrical bore



Dimension table · Dimensions in mm

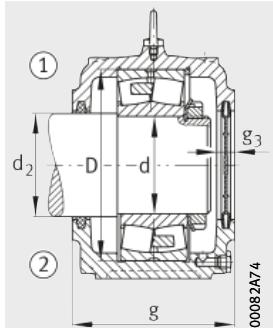
Shaft		Housing Dimensions												D	g_3
d	d_2	h	h_1	g	b	c	a	m	v	u	s	mm	inch		
120	130	112	215	150	110	40	390	320	36	30	M24	1	180	18	
130	145	125	239	160	120	45	420	350	36	30	M24	1	200	18	
140	155	140	259	170	120	45	420	350	36	30	M24	1	210	21	
150	160	150	278	175	130	45	460	380	36	30	M24	1	225	21	
160	175	150	288	190	130	50	470	390	36	30	M24	1	240	21	
170	185	160	320	200	160	55	540	450	48	36	M30	$1\frac{1}{8}$	260	25	

① Locating bearing; ② Non-locating bearing

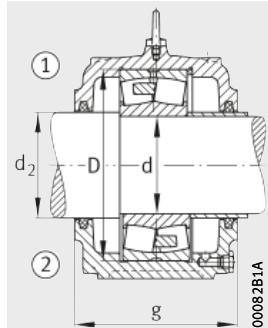
1) The felt strips are supplied by the metre and cut to the appropriate length on site.

2) Quantity of felt strips required: In the case of a housing closed on one side/in the case of a continuous shaft.

3) Housing without eye bolt.



Felt strip
Cover DK



Felt strip



Spherical roller bearing and accessories

Housing

Bearing	Locating ring	Cover	Felt strip ¹⁾ (length 1000 mm)		Mass $m \approx kg$	Designation
			Designation	Quantity ²⁾		
23024	FRM180/10	DK147-155	STRS153401-1-10X8,5-F2	1/1	16,5	S3024-Z-N-FZ-AB-L³⁾
23026	FRM200/10	DK156-163	STRS153401-1-10X8,5-F2	1/1	19,3	S3026-Z-N-FZ-AB-L³⁾
23028	FRM210/10	DK166-182	STRS153401-1-14X11-F2	1/1	24,6	S3028-Z-N-FZ-AB-L³⁾
23030	FRM225/10	DK185-197	STRS153401-1-14X11-F2	1/2	29	S3030-Z-N-FZ-AB-L³⁾
23032	FRM240/10	DK200-212	STRS153401-1-14X11-F2	1/2	37	S3032-Z-N-FZ-AB-L³⁾
23034	FRM260/10	DK200-212	STRS153401-1-16X12-F2	1/2	45	S3034-Z-N-FZ-AB-L

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Split plummer block housings SNS

Split plummer block housings SNS

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Product overview Split plummer block housings SNS

Plummer block housings
Split
For labyrinth and Taconite seals

SNS..-H, SNS..-Z



For Bolt-on seals

SNS..-B

