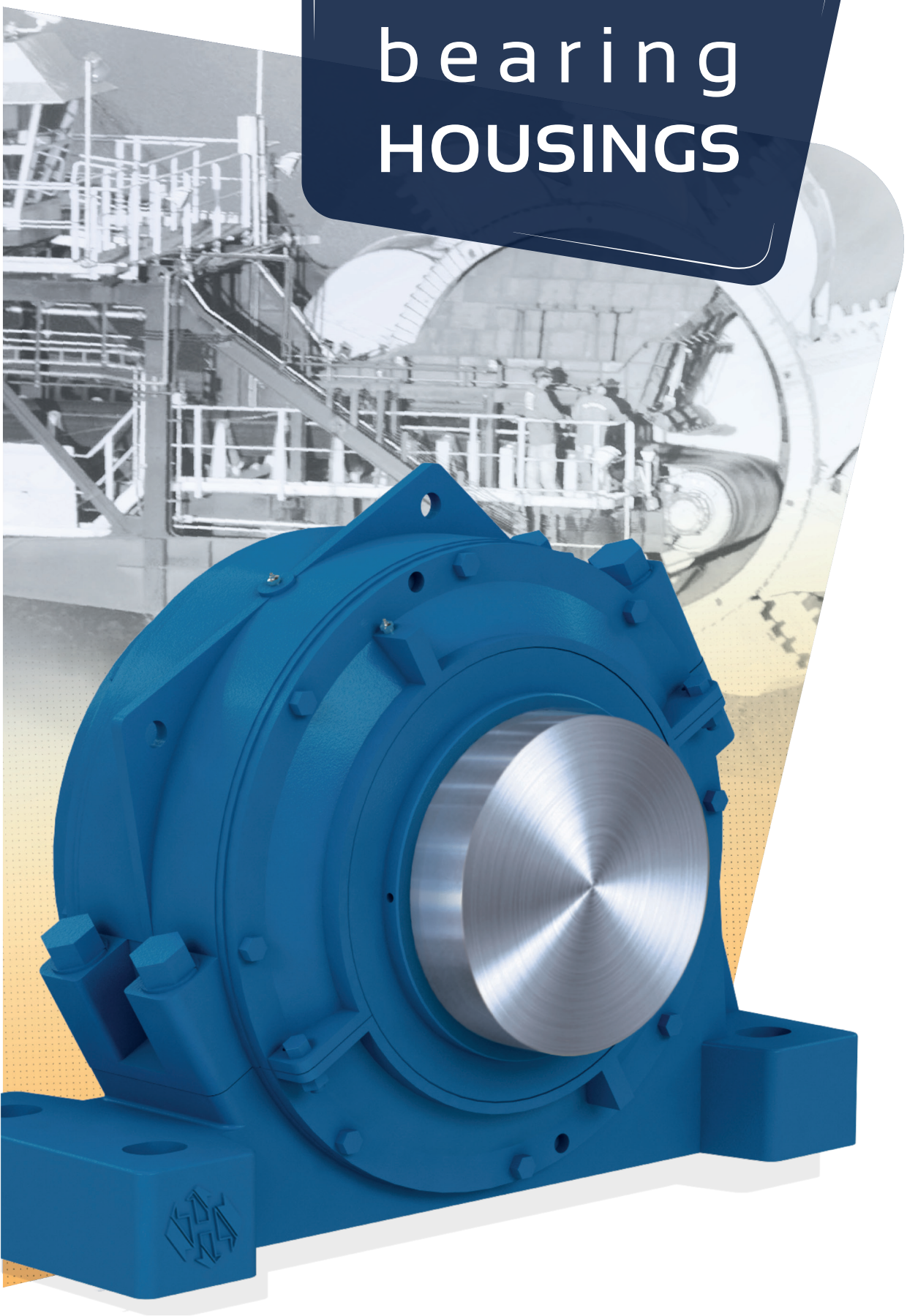
HENFEL
bearing HOUSINGS



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HENFEL

RINGFEDER
POWER TRANSMISSION

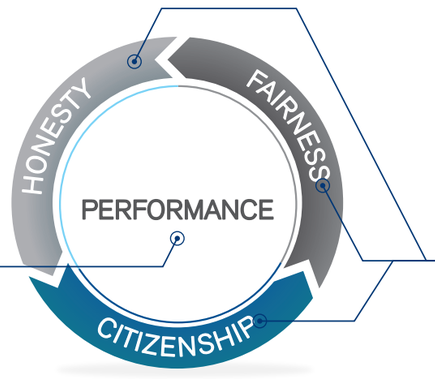
Our Vision

RINGFEDER POWER TRANSMISSION is the global market leader in niche markets in the power transmission industry, strongly preferred for its customised, need-based solutions that provide customers with outstanding and worry-free operation.

Our Mission

With all our energy we pursue the target to establish RINGFEDER POWER TRANSMISSION as the best solution on the market - wherever something is turning, moving or shaking.

Our Core Our Values



Our Slogan

Partner for Performance

HENFEL RINGFEDER

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INDEX

1 ABOUT US

Henfel develops and manufactures mechanical products for power transmission, such as flexible couplings, constant and variable speed hydrodynamic couplings, besides a complete line of bearing housings. The company serves the strictest industrial segments, such as mining, steel, cement, sugar and ethanol, pulp and paper, oil and gas, among others.

The company is a division of RINGFEDER Power Transmission division, which with its premium brands RINGFEDER and GERWAH, is one of the world leaders when it comes to locking assemblies, shrink discs, friction springs and industrial couplings and their applications.

The synergies that result of this alliance adds many competences to the group and it is an important step towards serving customers with a complete range of solutions for power transmission drive systems and braking systems.

2 TECHNICAL INFORMATION

2.1 MATERIALS

HENFEL bearing housings are manufactured out of three different types of materials, depending of the work which they are intended for.

- Grey Cast Iron DIN EN 1561
- Nodular Cast Iron DIN EN 1563
- ASTM A 148 - Gt. 80-40 or ASTM A 216 Gr. WCB

The description of Henfel bearing housings suffers alteration according to the specified material, being enough to add the letter in the nomenclature of the bearing, according to table below:

MATERIAL	SAI	HSBM	HSBP	SBPC	STM	HSPA	HSBM30K	HSBP30K	SD	HFR	SAF	F500	SOFN	SN30	SNAH	HEC	HF
Grey	*	*	*	*	**	**	*	*	*	*	*	*	*	*	*	*	*
Nod	N	N	N	N	*	*	N	N	N	N	N	N	N	N	S	N	N
Steel	S	S	S	S	S	S	S	S	S	S	***	S	S	S	**	S	S

* Normal standard manufacture.;
** **These materials are not common for these series**
*** Series SAF; requests for housings made of cast steel should add the suffix "S" (instead of a prefix) to the designation. Ex.: SAFS-522

Ex.: NSAI (Housing SAI made of nodular cast iron); SHSBP (Housing SBP made of cast steel); SSNAHD (Housings of the SNAH series with solid base, made of nodular cast iron).

TOLERANCES

HENFEL bearing housings are manufactured in accordance with the most stringent market norms and therefore are in line with existing application standards:

- Casting dimensions in conformity with norm (DIN 1686-GTB-17) where machining is absent;
- Housing height from base to center in conformity with norm (ISO Adjustment h-11);
- Machining of bearings track in conformity with norm (ISO Adjustment H-7);
- All other machined dimensions in conformity with norm (DIN 7168 - medium grade).

- All the contained dimensions in this catalog may be changed without previous warning due to technological evolution.
- Some series can bear split bearings. Please consult our Engineering Department.
- Housings with special tolerances can be made upon request.

2.2 SEALS

The seals' main function is to protect the bearing and internal components against contamination, thus avoiding early failures and enabling the bearing to reach its lifespan. Therefore, it has a direct impact on operational performance, productivity and cost reduction with undesired and unpredicted maintenance stops. Besides, they also prevent lubricant leakage.
There are 03 classes of seals available in Henfel's standard lines:

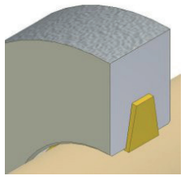
- **Contact seals**
  The seal elements are in contact with the shaft: this system has limited application due to the circumferential velocity of the shaft. It is recommended for low rotations and temperatures.

- **Dinamic seals**
  The sealing elements are fastened on the shaft, thus they are dinamic. Therefore, they have practically no attrition on the shaft's surface, which enables them for applications in high rotations and temperatures.

- **Combined seals**
  Two or more combined seals ensure better protection against penetration of external contaminants and lubricant leaks. This system is recommended for application in critical and contaminated environment; the combined seals are indicated for low or high rotations and temperatures, depending on the combination used.

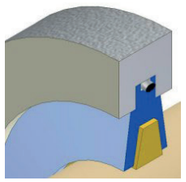
The original total width of the housings can be altered when alternate seals are used instead of the standard. Please refer to the tables in this catalog for original housing width dimensions with standard seals. We recommend that our engineering division be consulted prior to any request for seals not listed on the dimensional tables.

CONTACT SEALS



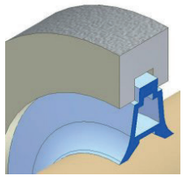
TC

- Description: Felt strips indicated for operation in non-aggressive environments.
- Lubrication: Grease.
- Circumferential velocity: Up to 4m/s.
- Operation temperature: Between -40 to 100°C.
- Tolerable misalignment: 0,5°.
- Special characteristics: Before being set, the felt strips should be soaked in oil heated to the temperature of 80 to 85°C. It is important that the seat of the felt strips on the housings and the felt classification be within the recommended specifications. The specifications can be supplied by our engineering department upon request



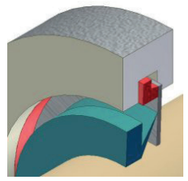
TC (TSNA-C)

- Description: Felt strips indicated for operation in non-aggressive environments.
- Lubrication: Grease.
- Circumferential velocity: Up to 4m/s.
- Operation temperature: Between -40 to 100°C.
- Tolerable misalignment: 0,5°.
- Special characteristics: Before being set, the felt strips should be soaked in oil heated to the temperature of 80 to 85°C. It is important that the seat of the felt strips on the housings and the felt classification be within the recommended specifications. The specifications can be supplied by our engineering department upon request



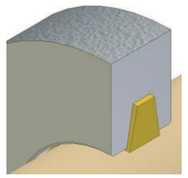
TG

- Description: Split nitrile or polyurethane rubber retainers with double lips.
- Lubrication: Grease.
- Circumferential velocity: Up to 8m/s.
- Operation temperature: Between -40°C to 100°C.
- Tolerable misalignment: 1°.
- Special characteristics: Upon mounting, the spaces between the contact lips should be filled with grease. This type of seal is specific for bearing housings of the SNAH series.



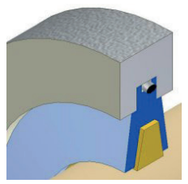
TA

- Description: One piece V-type ring with a lip that seals axially on a metal plate, or directly on an axial surface of the bearing housing itself. This contact surface should be machined.
- Lubrication: Grease or oil.
- Circumferential velocity: Up to 12 m/s, but at speeds of 7 m/s or higher they must be axially blocked on the shaft.
- Operation temperature: Between -40°C to 100°C.
- Tolerable misalignment: 1°.
- Special characteristics: These retainers are designed exclusively for bearing housings of the SNAH series.



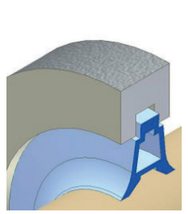
GS

- Description: Nitrile GS rubber retainer.
- Lubrication: Grease.
- Circumferential velocity: Up to 8m/s.
- Operation temperature: Between -40°C a 100°C.
- Tolerable misalignment: 1°.



ZF

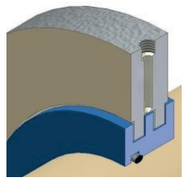
- Description: Nitrile ZF rubber retainer.
- Lubrication: Grease.
- Circumferential velocity: Up to 8m/s.
- Operation temperature: Between -40°C a 100°C.
- Tolerable misalignment: 1°.



R

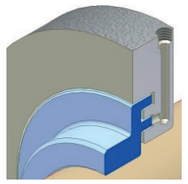
- Description: One piece nitrile rubber retainer with spring.
- Lubrication: Grease or oil.
- Circumferential velocity: Up to 8 m/s; the surface of the contact shaft must be grounded. Operating speed can be increase to up to 20 m/s, but the contact surface should be hardened and grounded.
- Operation temperature: Between -40°C a 100°C.
- Tolerable misalignment: 1°.
- Special characteristics: The retainer should be mounted with its lip facing toward the outside of the housing in order to avoid penetration of contaminants, but to avoid lubricant leaks, the retainer may be fitted inversely when a valve to relieve pressure is being used.

DINAMIC SEALS



TS

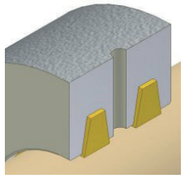
- Description: Metal ring with radial tears, which after assembled on the bearing housing, form grooves resembling a labyrinth.
- Lubrication: Grease.
- Circumferential velocity: Suited for high rotations.
- Operation temperature: Suited for high temperatures.
- Tolerable misalignment: 0,25°.
- Special characteristics: The spaces between grooves should be filled with grease. They can only be installed on split housings or lids. An o'ring as part of the labyrinth seal is fitted on the shaft.



AS

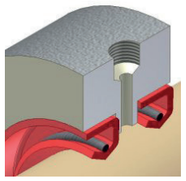
- Description: Metal ring with axial tears, which after assembled on the bearing housing, form grooves resembling a labyrinth.
- Lubrication: Grease.
- Circumferential velocity: Suited for high rotations.
- Operation temperature: Suited for high temperatures.
- Tolerable misalignment: 0,25°.
- Special characteristics: The spaces between grooves should be filled with grease. On request, these seals can be supplied with greasing nipple, for elimination of possible contaminants that may pass through the seal grooves. The labyrinth has an o'ring in contact with the shaft.

COMBINED SEALS



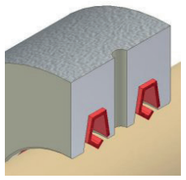
FF

- Description: Two felt strips, suited for not very contaminated environments.
- Lubrication: Grease.
- Circumferential velocity: Up to 4m/s.
- Operation temperature: Between -40°C to 100°C.
- Tolerable misalignment: 0,5°.
- Special characteristics: The felt strips should be soaked in heated oil at the temperature of 80 to 85°C before mounting. It is important that the seat of the felt strips on the housings and the felt classification be within the recommended specifications. In case of need we shall gladly supply the specifications.



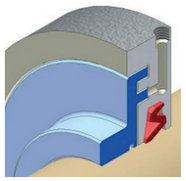
RR

- Description: A pair of one piece retainers with spring and greasing nipple for intermediate lubrication.
- Lubrication: Grease or oil.
- Circumferential velocity: Up to 8 m/s; the contact shaft surface must be grounded. Operating speed of up to 20 m/s can be obtained if the contact surface is hardened and ground.
- Operation temperature: Between -40°C to 100°C.
- Tolerable misalignment: 1°.
- Special characteristics: The retainers should be fitted with their lips facing the external part of the bearing, so as to avoid penetration of contaminants. They can be fitted inversely if a valve to relieve pressure is used.



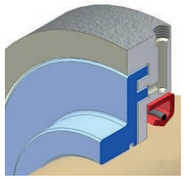
GSGS

- Description: Two nitrile rubber GS retainers.
- Lubrication: Grease.
- Circumferential velocity: Up to 8 m/s.
- Operation temperature: Between -40°C to 100°C.
- Tolerable misalignment: 1°.



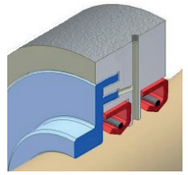
ASZF

- Description: Axial labyrinth and ZF retainer, with greasing nipple for grease injection in between, eliminating impurities to the external part of the assembly.
- Lubrication: Grease.
- Circumferential velocity: Up to 8m/s.
- Operation temperature: Between -40°C to 100°C.
- Tolerable misalignment: 0,25°.
- Special characteristics: The retainer should be mounted with its lip facing toward the outside of the housing in order to avoid penetration of contaminants.



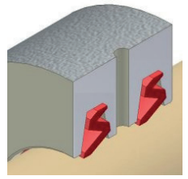
ASR

- Description: Axial labyrinth, one piece retainer with spring and greasing nipple for grease injection in between, eliminating impurities to the external part of the assembly.
- Lubrication: Grease.
- Circumferential velocity: Up to 8 m/s; the contact shaft surface must be ground. Speeds of up to 20 m/s are possible if the contact surface is hardened and ground.
- Operation temperature: Between -40°C to 100°C.
- Tolerable misalignment: 0,25°.
- Special characteristics: The retainer should be mounted with its lip facing toward the outside of the housing in order to avoid penetration of contaminants.



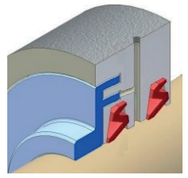
ASRR

- Description: Axial labyrinth, a pair of one piece retainers with spring and greasing nipple for injection of grease in between, eliminating the impurities to the external part of the assembly.
- Lubrication: Grease.
- Circumferential velocity: Up to 8 m/s; the contact shaft surface must be grounded. Operating speed of up to 20 m/s can be obtained if the contact surface is hardened and grounded.
- Operation temperature: Between -40°C to 100°C.
- Tolerable misalignment: 0,25°.
- Special characteristics: The retainers should be fitted with their lips facing the external part of the housing to avoid penetration of contaminants. They can be fitted inversely if a valve to relieve pressure is used.



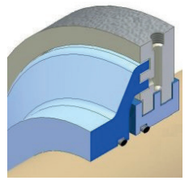
ZFZF

- Description: Two nitrile rubber ZF retainers.
- Lubrication: Grease.
- Circumferential velocity: Up to 8m/s.
- Tolerable misalignment: Between -40°C to 100°C.
- Special characteristics: 1°.



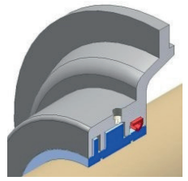
ASZFZF

- Description: Axial labyrinth, a pair of one piece retainers with spring and greasing nipple for injection of grease in between, eliminating the impurities to the external part of the assembly.
- Lubrication: Grease.
- Circumferential velocity: Up to 8 m/s; the contact shaft surface must be grounded. Operating speed of up to 20 m/s can be obtained if the contact surface is hardened and grounded.
- Operation temperature: Between -40°C to 100°C.
- Tolerable misalignment: 0,25°.
- Special characteristics: The retainers should be fitted with their lips facing the external part of the housing to avoid penetration of contaminants. They can be fitted inversely if a valve to relieve pressure is used.



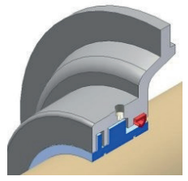
TAS

- Description: Two metal rings of which one radial and the other axial which when assembled form grooves resembling a labyrinth.
- Lubrication: Grease or oil.
- Circumferential velocity: Suited for high rotations.
- Operation temperature: Suited for high temperatures.
- Tolerable misalignment: 0,25°.
- Special characteristics: The spaces between grooves should be filled with grease.



TSGS

- Description: Composed of a radial labyrinth and a GS nitrile retainer.
- Lubrication: Grease.
- Circumferential velocity: Up to 8m/s. Above this velocity, the labyrinth must be hardened.
- Operation temperature: Up to 100°C.
- Tolerable misalignment: 0,5°.
- Special characteristics: Split radial labyrinth made of GGG50 ductile cast iron set directly on the shaft as a sacrifice sleeve since the retainer is applied on the surface of the labyrinth. Therefore, it preserves the shaft from wearing. Excellent performance and protection for internal components.



TSR

- Description: Composed of a radial labyrinth and a retainer.
- Lubrication: Grease.
- Circumferential velocity: Up to 8m/s. Above this velocity, the labyrinth must be hardened.
- Operation temperature: Up to 100°C.
- Tolerable misalignment: 0,5°.
- Special characteristics: Split radial labyrinth made of GGG50 ductile cast iron set directly on the shaft as a sacrifice sleeve since the retainer is applied on the surface of the labyrinth. Therefore, it preserves the shaft from wearing. Excellent performance and protection for internal components.

2.3 HOUSING TYPES AND FEATURES

HENFEL produces many housing types for the most diverse uses. The table below contains some of their basic features which will help you with the specifications.

SPLIT HOUSINGS

HSBM/FHSBM

- Features: Split, for shafts measuring between 35 and 470 mm. Shaft measurements in inches or millimeters. Appropriate for seating self-compensating roller bearings of the 222-K and 231-K series with adapter sleeves. They can seat split bearings, however, the designation must be changed by adding the prefix B. Please contact our engineering department in case you need to use different bearing series. It has split lateral lids and two holes on the base up to size 32 (inclusively). It can be supplied with 04 holes on the base by simply adding the prefix "F" to the reference. Beyond size 32 it has four holes on the base. Main dimensions are derived from series SN, SNA, SNH-500 and SD-31. Up to size 56, the blocked constructive form is obtained through locating rings. Above this size it is provided by the side covers.
- Application: General purpose, when rigidity of the unit must be combined with easy assembling, which is guaranteed by the split housing characteristics and adapter sleeves. They are widely used in belt conveyor pulleys.
- Lubrication: Grease.
- Standard seal: ASR.
- Admissible seals: AS, R, ZF, GS, TC, RR, GSGS, ZFZF, ASZF, ASZFZF, ASRR, TSGS, TSR.
- Dimensional: See pages 22 and 23.

HSBP/HSBP-D

- Features: Split, for shafts measuring between 40 and 470 mm. Shaft measurements in inches or millimeters. Appropriate for seating self-compensating roller bearing of the 222-K and 230-K series with adapter sleeves. They can seat split bearings, however, the designation must be changed by adding the prefix B. Please contact our engineering department in case you need to use different bearing series. It has split lateral lids and four holes on the base. Up to size 20 inclusively, it can be supplied with 2 holes on the base by simply adding the suffix "D" to the reference. Main dimensions are derived from series SAF-500. Up to size 56, the blocked constructive form is obtained through locating rings. Above this size it is provided by the side covers.
- Application: General purpose, when rigidity of the unit must be combined with easy assembling, which is guaranteed by the split housing characteristics and adapter sleeves. They are widely used in belt conveyor pulleys.
- Lubrication: Grease.
- Standard seal: ASR.
- Admissible seals: AS, R, ZF, GS, TC, RR, GSGS, ZFZF, ASZF, ASZFZF, ASRR, TSGS, TSR.
- Dimensional: See pages 24 and 25.

HSBM 30K

- Features: Split at 30° in respect to the base, for shafts measuring between 35 and 360 mm. Shaft measurements in inches or millimeters. Appropriate for seating self-compensating roller bearings of the 222-K and 231-K series with adapter sleeves. They can seat split bearings, however, the designation must be changed by adding the prefix B. For parallel bearings, the suffix "C" must be added to the housing reference. Please contact our engineering department in case you need to use different bearing series. It has split lateral lids and four holes on the base. Main dimensions are derived from series SN, SNA, SNH-500 and SD-31. Up to size 56, the blocked constructive form is obtained through locating rings. Above this size it is provided by the side covers.
- Application: General purpose, when rigidity of the unit must be combined with easy assembling, which is guaranteed by the split housing characteristics and adapter sleeves. Loadability is higher when load is not directed to the base. Due to the inclination of the split, they are applied in cases where the load is strongly directed at the lateral of the housing. In situations where they are installed on a inclined or vertical plan (45° to 90°), they make the access to the bearing during the maintenance much easier.
- Lubrication: Grease.
- Standard seal: ASR.
- Admissible seals: AS, R, ZF, GS, TC, RR, GSGS, ZFZF, ASZF, ASZFZF, ASRR, TSGS, TSR.
- Dimensional: See pages 26 and 27.

HSBP 30K

- Features: Split at 30° in respect to the base, for shafts measuring between 40 and 360 mm. Shaft measurements in inches or millimeters. Appropriate for seating self-compensating roller bearing of the 222-K and 230-K series with adapter sleeves. They can seat split bearings, however, the designation must be changed by adding the prefix B. For parallel bearings, the suffix "C" must be added to the housing designation. Please contact our engineering department in case you need to use different bearing series. They have split lateral lids and four holes on the base. Main dimensions are derived from series SAF-500. Up to size 56 the blocked constructive form is obtained through locating rings. Above this size it is provided by the side covers.
- Application: General purpose, when rigidity of the unit must be combined with easy assembling, which is guaranteed by the split housing characteristics and adapter sleeves. Loadability is higher when load is not directed to the base. Due to the inclination of the split, they are applied in cases where the load is strongly directed at the lateral of the housing. In situations where they are installed on a inclined or vertical plan (45° to 90°), they make the access to the bearing during the maintenance much easier.
- Lubrication: Grease.
- Standard seal: ASR.
- Admissible seals: AS, R, ZF, GS, TC, RR, GSGS, ZFZF, ASZF, ASZFZF, ASRR, TSGS, TSR.
- Dimensional: See pages 28 and 29.

SBPC / SBPC-D

- Features: Split, for shafts measuring from (54 / 42,9) to (330,2 / 292,1) mm. Appropriate for seating self-compensating roller bearings of the series 222-C and 230-C, without adapter sleeves. Please contact our engineering department for use of different bearing series. Side covers provide the desired constructive forms. It has 4 holes on the base, but up to and including size 20 it can be supplied with 2 holes, which is done by simply adding the suffix "D" to the housing designation. Its main dimensions are derived from the SAF-600 series.
- Application: General purpose, but with restricted use due to the fact that it requires special shafts which increase the cost of the equipment. Special accessories for assembling are required.
- Lubrication: Grease.
- Standard seal: AS.
- Admissible seals: ASR, R, ZF, TC, GS, RR, GSGS.
- Dimensional: See page 30.

SD-31

- Features: Split, for shafts measuring between 150 and 320 mm. Shaft measurements in inches or millimeters. Appropriate for seating bearings of the series 231-K, with adapter sleeves. The desired constructive form is provided by locating rings and side covers.
- Application: Suited for very heavy loads, e.g: ball mills, choppers, shredders.
- Standard lubrication: Oil.
- Admissível: Grease.
- Standard seal: TS.
- Dimensional: See page 31.

SD-500

- Features: Split, for shafts measuring between 135 and 300 mm. Shaft measurements in inches or millimeters. Appropriate for seating 222-K bearings, with adapter sleeves. Please contact our engineering department in case you need to use different bearing series. These housings are already manufactured with the desired constructive form and therefore, do not include any resources for later modification.
- Application: Suited for applications with heavy loads, e.g: ball mills, choppers, shredders.
- Lubrication: Grease.
- Standard seal: FF.
- Admissible seals: RR, TS, GSGS.
- Dimensional: See page 32.

SD-600

- Features: Split, for shafts measuring between 135 and 260 mm. Shaft measurements in inches or millimeters. Appropriate for seating 223-K bearings, with adapter sleeves. Please contact our engineering department in case you need to use different bearing series. These housings are already manufactured with the desired constructive form and therefore, do not include any resources for later modification.
- Application: Suited for applications with heavy loads, e.g: ball mills, choppers, shredders
- Lubrication: Grease.
- Standard seal: FF.
- Admissible seals: RR, TS, GSGS.
- Dimensional: See page 32.

SN-30

- Features: Split, for shafts measuring between 110 and 260 mm. Shaft measurements in inches or millimeters. Appropriate for seating 230-K bearings, with adapter sleeves. Please contact our engineering department in case you need to use different bearing series. The desired constructive form is provided by locating rings and side covers.
- Application: Applications for medium and small loads, passing perpendicularly through the base.
- Lubrication: Grease.
- Standard seal: TC.
- Admissible seals: ZF, GS, TS.
- Dimensional: See page 33.

SNAH-200

- Features: Split, for shafts measuring between 25 and 160 mm. Please consult our engineering department for shafts in inches. Appropriate for seating self-compensating ball bearings of the series 12-C and 22-C, and self-compensating roller bearings of the series 222-C or 232-C, without adapter sleeves. Please contact our engineering department in case you need to use different bearing series. The desired constructive form is provided by locating rings and lateral side covers. Alternatively, this housing type can be ordered in nodular cast iron and with solid base by simply adding the prefix "S" and the suffix "D" to the housing reference. For 2 holes on the base the suffix "MS 1" should be added, and the suffix "MS 2" indicates 4 holes.
- Application: For general purposes, light to normal loads. Special care should be taken when selecting bearings and seals for each specific application.
- Standard lubrication: Grease.
- Standard seal: TC (tsna-c).
- Admissible seals: TG (tsna-g), TA (tsna-a), TS.
- Dimensional: See page 34.

SNAH-300

- Features: Split, for shafts measuring between 25 and 100 mm. Please consult our engineering department for shafts in inches. Appropriate for seating self-compensating ball bearings of the series 13-C and 23-C, and self-compensating roller bearings of the series 213-C or 223-C, without adapter sleeves. Please contact our engineering department in case you need to use different bearing series. The desired constructive form is provided by locating rings and side covers. Alternatively, this housing type can be ordered in nodular cast iron and with solid base by simply adding the prefix "S" and the suffix "D" to the housing reference. For 2 holes on the base the suffix "MS 1" should be added, and the suffix "MS 2" indicates 4 holes.
- Application: For general purposes, light to normal loads. Special care should be taken when selecting bearings and seals for each specific application.
- Standard lubrication: Grease.
- Standard seal: TC (tsna-c).
- Admissible seals: TG (tsna-g), TA (tsna-a), TS.
- Dimensional: See page 35.

SNAH-500

- Features: Split, for shafts measuring between 20 and 140 mm. Please consult our engineering department for shafts in inches. Appropriate for seating self-compensating ball bearings of the series 12-K and 22-K, and self-compensating roller bearings of the series 222-K and 232-K, with adapter sleeves. Please contact our engineering department in case you need to use different bearing series. The desired constructive form is provided by locating rings and side covers. Alternatively, this housing type can be ordered in nodular cast iron and with solid base, by simply adding the prefix "S" and the suffix "D" to the housing designation. For 2 holes on the base the suffix "MS 1" should be added, and the suffix "MS 2" indicates 4 holes.
- Application: For general purposes, light to normal loads. Special care should be taken when selecting bearings and seals for each specific application.
- Standard lubrication: Grease.
- Standard seal: TC (tsna-c).
- Admissible seals: TG (tsna-g), TA (tsna-a), TS.
- Dimensional: See page 36.

SNAH-600

- Features: Split, for shafts measuring between 20 and 90 mm. Please consult our engineering department for shafts in inches. Appropriate for seating self-compensating ball bearings of the series 13-K and 23-K, and self-compensating roller bearings of the series 213 -K or 223-K, without adapter sleeves. Please contact our engineering department in case you need to use different bearing series. The desired constructive form is provided by locating rings and side covers. Alternatively, this housing type can be ordered in nodular cast iron and with solid base, by simply adding the prefix "S" and the suffix "D" to the housing designation. For 2 holes on the base the suffix "MS 1" should be added, and the suffix "MS 2" indicates 4 holes.
- Application: For general purposes, light to normal loads. Special care should be taken when selecting bearings and seals for each specific application.
- Standard lubrication: Grease.
- Standard seal: TC (tsna-c).
- Admissible seals: TG (tsna-g), TA (tsna-a), TS.
- Dimensional: See page 37.

SAF-200 / FSAF-200

- Features: Split, for shafts measuring between (3.5/8"-3") to (9.9/16" - 8.5/16"). Shaft measurements in inches. Appropriate for seating bearings of the series 222-C, without adapter sleeves. With 2 holes on the base for housings up to and including size SAF-220; if 4 holes are required please add the prefix "F" to the bearing reference. Please contact our engineering department in case you need to use different bearing series. The desired constructive form is provided by locating rings and side covers.
- Application: The ideal bearings for applications with medium to high loads and high rotation. They are usually used on fans and exhausters.
- Standard lubrication: Oil.
- Admissible lubrication: Grease.
- Standard seal: TS.
- Admissible seal: TAS.
- Dimensional: See page 38.

SAF-300 / FSAF-300

- Features: Split, for shafts measuring between (3.5/8"-3") to (9.9/16" - 8.5/16"). Shaft measurements in inches. Appropriate for seating bearings of the series 222-C, without adapter sleeves. With 2 holes on the base for housings up to and including size SAF-220; if 4 holes are required please add the prefix "F" to the bearing reference. Please contact our engineering department in case you need to use different bearing series. The desired constructive form is provided by locating rings and side covers.
- Application: The ideal bearings for applications with medium to high loads and high rotation. They are usually used on fans and exhausters.
- Standard lubrication: Oil.
- Admissible lubrication Grease.
- Standard seal: TS.
- Admissible seal: TAS.
- Dimensional: See page 38.

SAF-500 / FSAF-500

- Features: Split, for shafts measuring between 40 and 200 mm. Shaft measurements can be in inches or millimeters. Appropriate for seating roller bearings of the series 222-K, 202-K, 232-K, and self-compensating ball bearings of the series 12-K, 22-K, with their respective adapter sleeves. With 2 holes on the base for housings up to and including size SAF-520; if 4 holes are required please add the prefix "F" to the housing reference (only for housings up to size SAF-520). Please contact our engineering department in case you need to use different bearing series. The desired constructive form is provided by locating rings and side covers.
- Application: The ideal bearings for applications with medium to high loads and high rotation. They are usually used on fans and exhausters.
- Standard lubrication: Oil.
- Admissible lubrication: Grease.
- Standard seal: TS.
- admissible seal: TAS.
- Dimensional: See page 39.

SAF-600 / FSAF-600

- Features: Split, for shafts measuring between 40 and 170 mm. Shaft measurements in inches or millimeters. Appropriate for seating roller bearings of the series 223-K, with adapter sleeves. With 2 holes on the base for housings up to and including size SAF-617; if 4 holes are required please add the prefix "F" to the housing reference. Please contact our engineering department in case you need to use different bearing series. The desired constructive form is provided by locating rings and side covers.
- Application: The ideal bearings for applications with medium to high loads and high rotation. They are usually used on fans and exhausters.
- Standard lubrication: Oil.
- Admissible lubrication: Grease.
- Standard seal: TS.
- Admissible seal: TAS.
- Dimensional: See page 40.

SOFN-200

- Features: Split, for shafts measuring between 85 and 240 mm. Please contact our engineering department for shafts in inches. Appropriate for seating self-compensating roller bearings of the series 222-C, without adapter sleeves. Please contact our engineering department in case you need to use different bearing series. Two lateral side covers provide the desired constructive form. With lubricating ring and socket type oil sight glass. Refrigeration chamber and temperature sensor can be supplied on request.
- Application: Suited for high rotations and temperatures. Indicated for loads perpendicular to the base. They are usually applied on fans and exhausters.
- Lubrication: Oil.
- Seal: Specific labyrinth ring as shown on the dimension table.
- Dimensional: See page 41.

SOFN-300

- Features: Split, for shafts measuring between 50 and 180 mm. Please contact our engineering department for shafts in inches. Appropriate for seating self-compensating roller bearings of the series 223-C, without adapter sleeves Please contact our engineering department in case you need to use different bearing series. Two side covers provide the desired constructive form. With lubricating ring and socket type oil sight glass. Refrigeration chamber and temperature sensor can be supplied on request.
- Application: Suited for high rotations and temperatures. Indicated for loads perpendicular to the base. They are usually applied on fans and exhausters.
- Lubrication: Oil.
- Seal: Specific labyrinth ring as shown on the dimension table.
- Dimensional: See page 41.

SOFN-600

- Features: Split, for shafts measuring between 45 and 160 mm. Please contact our engineering department for shafts in inches. Appropriate for seating self-compensating roller bearings of the series 223-K, with adapter sleeves for securing. Please contact our engineering department in case you need to use different bearing series. Two side covers provide the desired constructive form. With lubricating ring and socket type oil sight glass. Refrigeration chamber and temperature sensor can be supplied on request.
- Application: Suited for high rotations and temperatures. Indicated for loads perpendicular to the base. They are usually applied on fans and exhausters.
- Lubrication: Oil.
- Seal: Specific labyrinth ring as shown on the dimension table.
- Dimensional: See page 42.

ONE PIECE HOUSING

SAI

- Features: One piece housing, for shafts of 40 to 300 mm. Shaft measurements in inches or millimeters. Appropriate for seating self-compensating roller bearings of the series 222-K, with adapter sleeves. Please contact our engineering department in case you need to use different bearing series. Up to size 32 (inclusively) they have locating rings, and above, the side covers provide the constructive forms.
- Application: General purpose, to impart greater rigidity to mounted unit. Good strength when loads are not directed to the base.
- Lubrication: Grease.
- Standard seal: AS.
- Admissible seals: ASZF, ASR, R, ZF, TC, GS, RR, GSGS.
- Dimensional: See pages 44 and 45.

TAKE-UP HOUSINGS

STM

- Features: One piece take-up housing, for shafts measuring from 35 to 135 mm. Shaft measurements in inches or millimeters. Appropriate for seating bearings of the series 222-K, with adapter sleeves. Please contact our engineering department in case you need to use different bearing series. Locating rings and side covers provide the desired constructive forms.
- Application: Suited for applications where tensioning of the unit is desired. Examples: elevators, conveyor.
- Lubrication: Grease.
- Standard seal: AS.
- Admissible seals: ASR, R, ZF, TC, GS, RR, GSGS, ASRR, ASZFZF.
- Dimensional: See page 43.

HSPA

- Features: One piece, take up housing, from shafts measuring from 125 to 360 mm. Shaft measurements in inches or millimeters. Appropriate for seating bearings of the series 222-K, 230K, 231K and 232K with adapter sleeves. Please contact our engineering department in case you need to use different bearing series. Locating rings and side covers provide the desired constructive forms.
- Application: Suited for applications where tensioning of the unit is desired. Examples: elevators, conveyors, etc.
- Lubrication: Grease.
- Standard seal: AS.
- Admissible seals: ASR, R, ZF, TC, GS, RR, GSGS, ASRR, ASZFZF.
- Dimensional: See page 48.

ONE PIECE FLANGED HOUSINGS

F-500 OU 722500

- Features: One piece flanged housing, for shafts measuring between 20 and 100 mm. Appropriate for seating ball bearings of the series 12-K and 22-K, or roller bearings of the series 222-K, with adapter sleeves. Please contact our engineering department in case you need to use different bearing series. For shaft diameters of up to and including 60 mm these housings are triangular, with three holes for securing: for larger shaft diameters the housings are square, with 4 holes for securing, with one lateral side covers. The constructive form is obtained through locating rings or ZW rings.
- Application: Suited for operation on structure surfaces with no special supports required. It saves space.
- Lubrication: Grease.
- Standard seal: TC.
- Admissible seals: ZF, GS.
- Dimensional: See pages 46 and 47.

HFR

- Features: One piece and flanged, for shafts measuring between 20 and 100 mm. Shaft measurements in inches or millimeters. Appropriate for seating ball bearings of the series 22-K, or roller bearings of the series 222-K, all with adapter sleeves. Please contact our engineering department in case you need to use different bearing series. Square shape for entire series, side covers provide the desired constructive form.
- Application: Suited for operating on structure faces, no special supports required; space saving. Excellent performance in humid environments.
- Lubrication: Grease.
- Standard seal: R.
- Dimensional: See page 49.

BRONZE BUSHING HOUSINGS

HEC

- Features: Split, for shafts measuring between 76,2 and 254mm, shaft measurements in millimeters only. It houses a split SAE 67 bronze bushing. For stepped shaft applications, the diameter of the lateral side covers must be informed.
- Application: Commonly applied to equipments used at sugar and alcohol plants which demand high load capacity, such as drag conveyors, feeding tables, cane conveyors, among others.
- Lubrication: Grease.
- Standard seal: TC.
- Admissible seal: R.
- Dimensional: See page 50.

HF

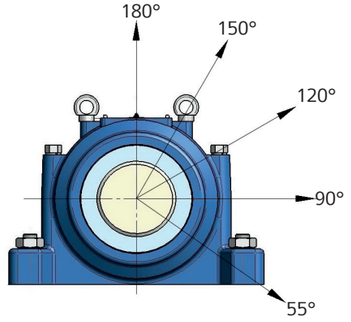
- Features: One piece take up bronze bushing housing, for shafts measuring between 38,1 and 190,5. Made of steel sheets, it houses a one piece SAE 67 bronze bushing.
- Application: Commonly applied to equipments used at sugar and alcohol plants which demand high load capacity and tensioning of the unit, such as drag conveyors, feeding tables, cane conveyors, among others.
- Lubrication: Grease.
- Dimensional: See page 50.

2.4 LOADABILITY

Capacities shown on the tables below refer to housings made of grey cast iron. For housings made of nodular cast iron and cast steel increase displayed values by 80%.

CAPACITIES OF SD-31 HOUSINGS

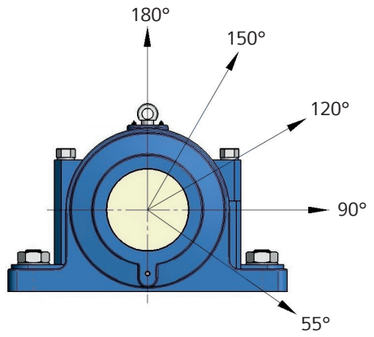
(Coupling bolts class 8.8)



Housing size	Breaking load kN					Flow limit of bolts		
	55°	90°	120°	150°	180°	120°	150°	180°
3134	2100	1000	760	680	850	1500	830	750
3136	2400	1150	850	760	950	1500	830	750
3138	2700	1300	1000	880	1100	2000	1100	1000
3140	3200	1600	1150	1050	1300	2000	1100	1000
3144	4000	1900	1400	1300	1600	2000	1100	1000
3148	4200	2000	1500	1400	1700	3200	1800	1600
3152	4700	2300	1700	1500	1900	3200	1800	1600
3156	5000	2400	1800	1600	2000	3200	1800	1600
3160	6000	2900	2200	1900	2400	3200	1800	1600
3164	7000	3400	2500	2200	2800	3200	1800	1600
3168	7500	3650	2650	2400	3000	3200	1800	1600

CAPACITIES OF SN-30 HOUSINGS

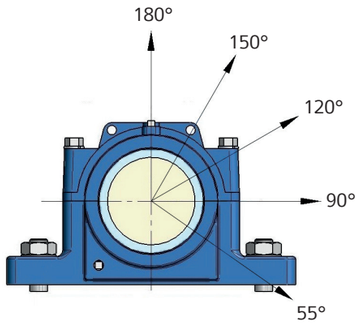
(Coupling bolts class 8.8)



Housing size	Breaking load kN					Flow limit of bolts		
	55°	90°	120°	150°	180°	120°	150°	180°
3024	520	310	230	210	260	260	150	130
3026	620	370	280	250	310	260	150	130
3028	700	420	310	280	350	260	150	130
3030	780	470	350	310	390	260	150	130
3032	840	500	380	340	420	260	150	130
3034	1000	600	450	400	500	380	220	190
3036	1160	700	520	460	580	380	220	190
3038	1300	780	580	520	650	380	220	190
3040	1480	890	670	590	740	380	220	190
3044	1700	1020	760	680	850	630	360	310
3048	1880	1130	850	750	940	630	360	310
3052	2120	1270	950	850	1060	800	460	400
3056	2240	1340	1000	900	1120	800	460	400

CAPACITIES OF SAF HOUSINGS

(Coupling bolts class 8.8)

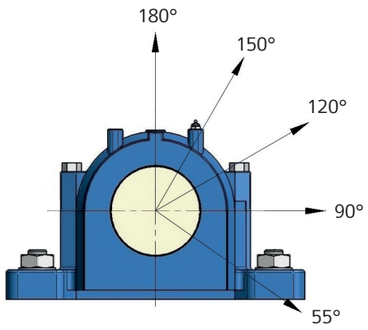


Housing size				Breaking load kN					Flow limit of bolts		
				55°	90°	120°	150°	180°	120°	150°	180°
-	-	509	-	160	96	72	64	80	160	88	80
-	308	510	-	190	114	85	76	95	160	88	80
-	309	511	609	220	132	99	88	110	240	132	120
-	310	513	610	260	156	117	104	130	240	132	120
311	312	515	611	280	168	126	112	140	240	132	120
216	313	516	613	320	192	144	128	160	440	242	220
217	314	517	-	360	216	162	144	180	440	242	220
218	315	518	615	380	228	171	152	190	440	242	220
-	316	-	616	420	252	189	168	210	440	242	220
220	317	520	617	480	288	216	192	240	600	330	300
222	318	522	618	620	372	279	248	310	600	330	300
224	320	524	620	760	456	342	304	380	600	330	300
226	322	526	622	920	552	414	368	460	1100	605	550
228	-	528	-	1100	660	495	440	550	1100	605	550
230	324	530	624	1300	780	585	520	650	1100	605	550
232	326	532	626	1600	960	720	640	800	1100	605	550
234	328	534	628	1700	1020	765	680	850	1500	825	750
236	330	536	630	1900	1140	855	760	950	1500	825	750
238	332	538	632	2200	1320	990	880	1100	2000	1100	1000
240	334	540	634	2600	1560	1170	1040	1300	2000	1100	1000
244	338	544	638	3200	1920	1440	1280	1600	2000	1100	1000

CAPACITIES OF SNAH AND SSNAHD HOUSINGS

(Coupling bolts class 8.8)

In case of need for greater capacity, request a quote.

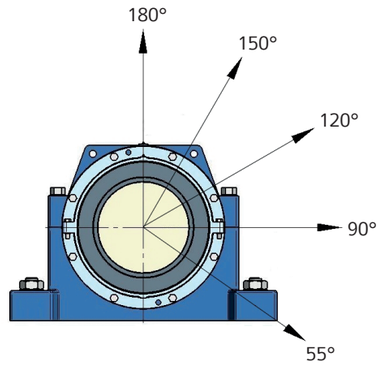


ATTENTION The SNAH 200 housings have the same resistance as the SNAH 500 housings, and the SNAH 300 housings have the same resistance as the SNAH 600 housings

Housing size	Breaking load kN					Flow limit of bolts		
	55°	90°	120°	150°	180°	120°	150°	180°
SNAH 505	70	40	30	30	35	35	21	17,5
SNAH 506-605	80	50	35	30	40	35	21	17,5
SNAH 507-606	90	55	40	35	45	35	21	17,5
SNAH 508-607	100	60	45	40	50	35	21	17,5
SNAH 509	110	65	50	45	55	35	21	17,5
SNAH 510-608	120	70	55	50	60	35	21	17,5
SNAH 511-609	140	85	65	55	70	55	32	27,5
SNAH 512-610	150	90	65	60	75	55	32	27,5
SNAH 513-611	170	100	75	70	85	55	32	27,5
SNAH 515-612	190	110	85	75	95	55	32	27,5
SNAH 516-613	220	130	100	90	110	55	32	27,5
SNAH 517	240	140	110	95	120	55	32	27,5
SNAH 518-615	260	160	120	100	130	110	65	55
SNAH 519-616	280	170	130	110	140	110	65	55
SNAH 520-617	340	200	150	140	170	170	100	85
SNAH 522-619	440	260	200	180	220	170	100	85
SNAH 524-620	520	310	230	210	260	170	100	85
SNAH 526	620	370	280	250	310	250	145	125
SNAH 528	720	430	320	290	360	250	145	125
SNAH 530	860	520	390	340	430	250	145	125
SNAH 532	1100	660	490	440	550	250	145	125
SSNAHD 508-607	180	110	65	60	75	35	21	17,5
SSNAHD 509	200	120	75	70	85	35	21	17,5
SSNAHD 510-608	220	130	80	68	90	35	21	17,5
SSNAHD 511-609	250	155	100	80	105	55	32	27,5
SSNAHD 512-610	270	160	110	100	120	55	32	27,5
SSNAHD 513-611	310	185	120	115	135	55	32	27,5
SSNAHD 515-612	350	200	130	115	145	55	32	27,5
SSNAHD 516-613	395	240	170	150	165	55	32	27,5
SSNAHD 517	430	255	190	165	180	55	32	27,5
SSNAHD 518-615	470	290	210	180	230	110	65	55
SSNAHD 519-616	510	310	220	195	240	110	65	55
SSNAHD 520-617	620	370	280	260	310	170	100	85
SSNAHD 522-619	780	470	350	310	390	170	100	85
SSNAHD 524-620	920	560	400	360	440	170	100	85
SSNAHD 526	1050	610	500	450	560	250	145	125
SSNAHD 528	1200	680	580	520	650	250	145	125
SSNAHD 530	1450	860	710	610	780	250	145	125
SSNAHD 532	1800	1080	880	750	980	250	145	125

CAPACITIES OF HSBP AND SBPC HOUSINGS

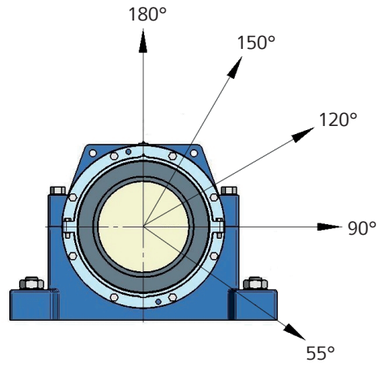
(Coupling bolts class 8.8)



Housing size	Breaking load kN					Flow limit of bolts		
	55°	90°	120°	150°	180°	120°	150°	180°
9	160	96	72	64	80	160	88	80
10	190	114	85	76	95	160	88	80
11	220	132	99	88	110	240	132	120
13	260	156	117	104	130	240	132	120
15	280	168	126	112	140	240	132	120
16	320	192	144	128	160	440	240	220
17	360	216	162	144	180	440	242	220
18	380	228	171	152	190	440	242	220
20	480	288	216	192	240	600	330	300
22	620	372	279	248	310	600	330	300
24	760	456	342	304	380	600	330	300
26	920	552	414	368	460	1100	605	550
28	1100	660	495	440	550	1100	605	550
30	1300	780	585	520	650	1100	605	550
32	1600	960	720	640	800	1100	605	550
34	1700	1020	765	680	850	1500	825	750
36	1900	1140	855	760	950	1500	825	750
38	2200	1320	990	880	1100	2000	1100	1000
40	2600	1560	1170	1040	1300	2000	1100	1000
44	3200	1920	1440	1280	1600	2000	1100	1000
48	3400	2040	1530	1360	1700	2000	1100	1000
52	3800	2280	1710	1520	1900	2000	1100	1000
56	4000	2400	1800	1600	2000	3200	1760	1600
60	4800	2880	2160	1920	2400	3200	1760	1600
64	5600	3360	2560	2240	2800	3200	1760	1600
68	6000	3600	2700	2400	3000	3200	1760	1600
72	6400	3840	2880	2560	3200	3200	1760	1600
76	6800	4080	3060	2720	3400	3200	1760	1600
80	7650	4590	3440	3060	3825	3200	1760	1600
84	8700	5220	3915	3480	4350	4400	2520	2200
88	9600	5760	4320	3840	4800	4400	2520	2200
92	10400	6240	4680	4160	5200	4400	2520	2200
96	11000	6600	4950	4400	5500	4400	2520	2200
500	12500	7500	5625	5000	6250	4400	2520	2200

CAPACITIES OF HSBM HOUSINGS

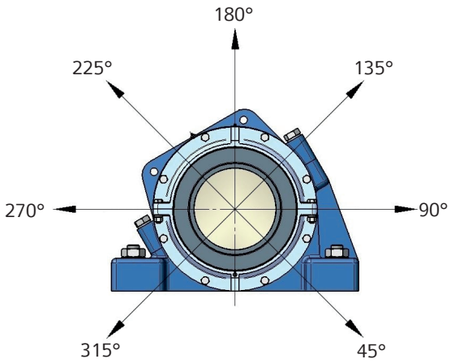
(Coupling bolts class 8.8)



Housing size	Breaking load kN					Flow limit of bolts		
	55°	90°	120°	150°	180°	120°	150°	180°
8	150	90	67	60	75	160	88	80
9	160	96	72	64	80	160	88	80
10	190	114	85	76	95	160	88	80
11	220	132	99	88	110	240	132	120
12	240	144	108	96	120	240	132	120
13	260	156	117	104	130	240	132	120
15	280	168	126	112	140	240	132	120
16	320	192	144	128	160	440	240	220
17	360	216	162	144	180	440	242	220
18	380	228	171	152	190	440	242	220
19	420	254	189	168	210	440	242	220
20	480	288	216	192	240	600	330	300
22	620	372	279	248	310	600	330	300
24	760	456	342	304	380	600	330	300
26	920	552	414	368	460	1100	605	550
28	1100	660	495	440	550	1100	605	550
30	1300	780	585	520	650	1100	605	550
32	1600	960	720	640	800	1100	605	550
34	1700	1020	765	680	850	1500	825	750
36	1995	1197	898	798	998	1500	825	750
38	2430	1458	1093	972	1215	2000	1100	1000
40	2600	1560	1170	1040	1300	2000	1100	1000
44	3200	1920	1440	1280	1600	2000	1100	1000
48	4680	2808	2106	1872	2340	2000	1100	1000
52	5009	3005	2254	2004	2505	2000	1100	1000
56	5356	3214	2410	2142	2678	3200	1760	1600
60	6050	3630	2722	2420	3025	3200	1760	1600
64	7630	4578	3488	3052	3815	3200	1760	1600
68	8121	4872	3654	3248	4060	3200	1760	1600
72	8674	5204	3903	3469	4337	3200	1760	1600
76	9319	5591	4193	3727	4659	3200	1760	1600
80	9810	5886	4411	3924	4905	3200	1760	1600
84	11919	7151	5364	4768	5960	4400	2520	2200
88	12923	7754	5815	5169	6462	4400	2520	2200
92	14311	8587	6440	5724	7156	4400	2520	2200
96	15365	9219	6914	6146	7683	4400	2520	2200
500	18134	10880	8160	7254	9067	4400	2520	2200

CAPACITIES OF HSBP 30K HOUSINGS

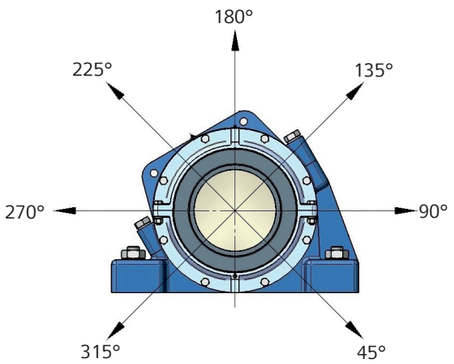
(Coupling bolts class 8.8)



Housing size	Breaking load kN						
	45°	90°	135°	180°	225°	270°	315°
9	442	238	130	120	89	125	180
10	464	251	140	133	92	138	185
11	476	264	149	135	96	140	192
13	500	280	157	139	98	149	198
15	521	315	468	141	100	156	206
16	535	335	176	149	103	159	215
17	616	349	187	154	108	168	219
18	672	371	201	162	113	176	225
20	722	394	211	167	117	185	235
22	862	511	239	195	139	212	273
24	973	628	273	223	162	250	305
26	1115	759	330	258	184	290	369
28	1500	908	392	313	218	346	432
30	1670	1073	443	336	246	380	498
32	1835	1320	492	392	292	436	555
34	2139	1403	560	448	324	493	644
36	2420	1540	672	504	375	560	728
38	2420	1781	784	532	375	700	896
40	2750	2106	896	560	430	700	896
44	3424	2593	1000	670	470	784	1000
48	3638	2500	1280	750	478	896	1280
52	4066	3000	1400	840	588	1000	1560
56	4280	3240	1560	950	700	1230	1790
60	5136	3888	1790	1170	810	1450	1950
64	5992	4535	2128	1230	896	1680	2180
68	6420	4900	2680	1400	950	1730	2680
72	6670	5600	3240	1512	1030	2070	3240
76	7780	6250	3500	1600	1100	2100	3500
80	8900	7000	4200	1800	1280	2400	4480
84	10000	7625	5000	2100	1400	2700	5300
88	11150	8375	5300	2100	1400	2700	5600
92	12250	9000	5600	2300	1600	2800	5800
96	12800	9375	5800	2400	1800	3200	6100
500	14500	9750	6400	3000	2000	3580	6400

CAPACITIES OF HSBM 30K HOUSINGS

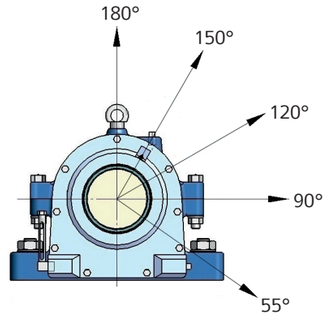
(Coupling bolts class 8.8)



Housing size	Breaking load kN						
	45°	90°	135°	180°	225°	270°	315°
8	414	223	120	110	80	180	260
9	442	238	130	120	89	125	180
10	464	251	140	133	92	138	185
11	476	264	149	135	96	140	192
12	488	270	153	139	98	142	194
13	500	280	157	139	98	149	198
15	521	315	468	141	100	156	206
16	535	335	176	149	103	159	215
17	616	349	187	154	108	168	219
18	672	371	201	162	113	176	225
19	700	382	208	165	114	180	230
20	722	394	211	167	117	185	235
22	862	511	239	195	139	212	273
24	973	628	273	223	162	250	305
26	1115	759	330	258	184	290	369
28	1500	908	392	313	218	346	432
30	1670	1073	443	336	246	380	498
32	1835	1320	492	392	292	436	555
34	2139	1320	560	448	324	493	644
36	2541	1617	706	529	394	588	764
38	2673	1967	866	588	414	773	990
40	2750	2106	896	560	430	700	896
44	3424	2593	1000	670	470	784	1000
48	5007	3441	1762	1032	658	1233	1762
52	5360	3955	1845	1107	775	1318	2056
56	5731	4338	2089	1272	937	1647	2397
60	6473	4900	2256	1475	1021	1828	2458
64	8164	6179	2899	1676	1221	2289	2970
68	8689	6632	3627	1895	1286	2341	3627
72	9040	7589	4391	2049	1396	2805	4391
76	10661	8565	4796	2193	1507	2878	4796
80	11413	8976	5386	2308	1641	3078	5745
84	13700	10446	6850	2877	1918	3699	7261
88	15010	11274	7135	2827	1885	3635	7538
92	16857	12385	7706	3165	2202	3853	7981
96	17879	13095	8102	3352	2514	4470	8521
500	21035	14144	9285	4352	2901	5194	9285

CAPACITIES OF SOFN HOUSINGS

(Coupling bolts class 8.8)



ATTENTION The SOFN 300 housings have the same resistance as the SOFN 600 housings, and the SOFN 200 housings have the same resistance as the SOFN 500 housings

Housing size	Breaking load kN					Flow limit of bolts		
	55°	90°	120°	150°	180°	120°	150°	180°
610	390	160	110	100	130	100	60	50
611	390	160	110	100	130	100	60	50
612	450	180	120	110	150	100	60	50
517 - 614	690	260	190	180	230	100	60	50
518	900	350	250	230	300	160	90	80
519 - 616	990	390	270	250	330	160	90	80
520	1080	450	300	280	360	160	90	80
522	1260	500	350	320	420	160	90	80
618	1500	600	420	380	500	340	200	170
524 - 620	2100	780	580	540	700	340	200	170
526	2550	980	700	650	850	340	200	170
528 - 622	2550	1020	700	650	850	520	300	260
530 - 624	3000	1230	830	770	1000	520	300	260
532 - 626	3000	1230	830	770	1000	520	300	260
534	3360	1330	940	860	1120	520	440	380
628	3750	1530	1040	960	1250	760	440	380
536 - 630	3750	1530	1040	960	1250	760	440	380
538 - 632	3750	1530	1040	960	1250	760	440	380
540 - 634	4950	2000	1380	1270	1650	760	440	380
544 - 636	6300	2550	1750	1600	2100	1260	720	620
548	6300	2550	1750	1600	2100	1260	720	620

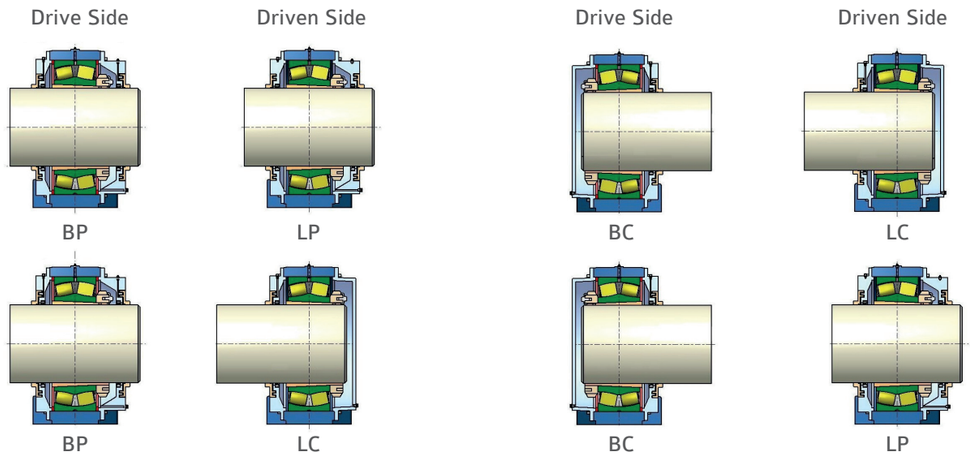
2.5 CONSTRUCTIVE FORMS

As shown on the table below, the bearing housings feature 4 specific constructive forms. In most cases, a “locating bearing” housing must be assembled at the drive side of the equipment in order to avoid the axial displacement of the bearing. A “non-locating bearing” housing must be assembled at the driven side in order to allow shaft axial movements and absorption of small dimensional deviations without straining the mobile parts of the bearings. If more than a bearing housing should be applied on the shaft at the drive side, one of the bearings should be of the locating type, and the others of the non locating type.

BP (Locating Bearing) — For Passing Shaft
LP (Non-Locating Bearing) — For Passing Shaft
BC (Locating Bearing) — For Blind Shaft
LC (Non-Locating Bearing) — For Blind Shaft

CORRECT ASSEMBLING

Below, the most common assembling forms are illustrated. The blocking of the axial displacement of the bearing can be done either by a locating ring or by the side covers, depending on the housing series.



2.6 CIRCUMFERENTIAL VELOCITY

CALCULATION OF THE CIRCUMFERENTIAL VELOCITY FOR SEAL SELECTION

In order to select a contact seal, it is necessary to first know the circumferential velocity of the shaft, which is in contact with the seal. Circumferential velocity is determined as per formula below. Permissible speed for each contact seal is as shown on pages 04 to 07.

$$V = \frac{52 \times N \times d}{1.000.000}$$

V = Circumferential velocity, in meters per second (m/s)
N = Shaft rotation, in rotations per minute (rpm)
d = Shaft diameter, in millimeters (mm)

Example:
d = 200 mm
N = 1200 rpm

$$V = \frac{52 \times 1200 \times 200}{1.000.000}$$

V = 12,48 m/s

As it can be seen on the example above, contact seals are not appropriate; we recommend the use of no-contact seals (radial or axial labyrinths).

LUBRICATION

The purpose of a lubricant is to reduce friction between the moving elements of a bearing and seal and the static elements of the housing, thus reducing internal wear.
The best known and most frequently used lubricants are grease and mineral oil. For each specific application there is an ideal lubricant. For the correct selection of a lubricant various factors should be considered, such as: temperature, environment, operating rotation, bearing type used, etc. The advantages and inconveniences of using grease or oil as well as a practical system for lubricating the bearings inside the housings are given below:

Lubrificant	Advantages	Inconveniences
Grease	Ease warehousing and transporting Easy handling and application No need for checking grease level Smaller risk of leaking Simple seals Sealing effect	The bearing has to be opened for a change of grease Lower rotation limit as compared to oil
Oil	Higher rotation limit as compared to grease Various lubrication methods Cooling effect on the system Easy change through drain plugs	Difficulty warehousing and transporting Difficulty to handle and application Need for checking oil level Greater leaking risk More complex seals

METHOD TO DETERMINE THE GREASE VOLUME

The grease volume applied to the empty spaces of the housing should take into consideration the rotation limit of the given bearing, as indicated on the table below:

Fill in all empty spaces of the bearing.	
Rotation	Amount of grease
Low rotation	100%
Less than 80% of the limit	50% a 80%
More than 50% of the limit	30% a 50%

Recommendations

- As a rule, all grease inside the housing should be replaced every six months.
- Quantity of grease to be added during relubrication must be in accordance with the results of the formula: (G) = 0,005 x D x B
  Onde: G = quantity of grease in grams
  D = external diameter of bearing in mm
  B = total width of bearing in mm

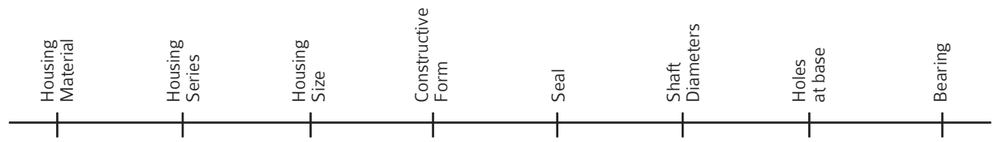
Ex.: Bearing 22.222 K - (110 x 200 x 53)

G=0,005 X 200 X 53

G=53

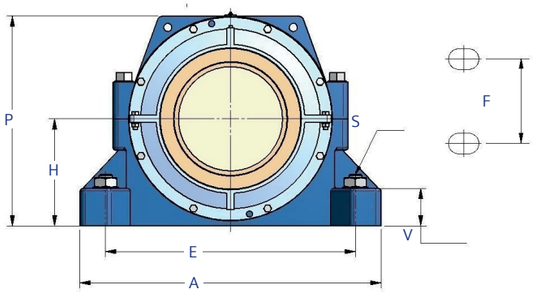
2.7 SPECIFICATIONS FOR HENFEL HOUSINGS

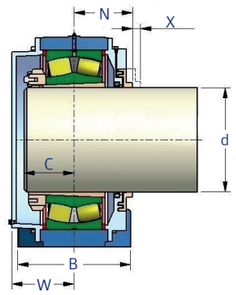
The specification for housings should be objective, stating as clearly as possible all the manufacturing data. It should contain information of the material used for the housing, type and size of housing, constructive form, seal type, bearing type, shaft diameter, quantity of holes on the base and reference of manufacturer, as per sequence below:



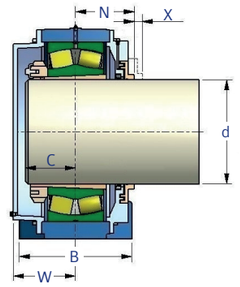
Material used for the housing	Cast steel - Prefix "S" (except for the SNAH series, which the prefix S stands for nodular cast iron). Nodular cast iron - Prefix "N" (except for the STM and HSPA series, since their standard material is nodular cast iron). Grey cast iron - Prefix omitted.
Housing series	As dimensional tables from page 22 on. Ex: HSBP 30K, HSBM, etc.
Housing size	As dimensional tables from page 22 on.
Constructive form	It refers to the bearing arrangement within the housing and the type of shaft (passing or blind), which will determine the types of lateral side covers that will configure the housing (both lids opened, or one lid opened and one closed). See page 19. **BP** - Locating bearing, with passing shaft; **LP** - Non-locating bearing, with passing shaft; **BC** - Locating bearing, with blind shaft; **LC** - Non-locating bearing, with blind shaft.
Seal	The seal type to be used should always be indicated. In this catalog we show various seal types for housings. The most common ones are listed below: **ASR** Axial labyrinth and retainer with spring; **TC** Felt strips for housings SN, SNA; **AS** Axial labyrinth; **TS** Radial labyrinth; **TSGS** Radial labyrinth and GS nitrile retainer; **TSR** Radial labyrinth and split spring retainer; **ASZF** Axial labyrinth and retainer ZF; **R** Retainer; **TAS** Axial and radial labyrinth; **ASRR** Axial labyrinth and two retainers with spring.
Shaft diameters	Shaft diameters or the adapter sleeve used for any housing series should always be specified, especially for housings with contact seals, such as: retainers, labyrinths and others, seeing that each shaft diameter requires its specific seal.
Holes on the base	The bearing houses type HSBP up to size 20/208/207 can be manufactured with two holes on the base, by means of adding the suffix "D" to the designation: Ex. HSBP-D-16. The bearing houses type HSBM series and SAF-520 up to size 327/328/32 are manufactured with two holes on the base, but they can be manufactured with four as long as the prefix "F" is added to the reference. Ex: FHSBM-16. The opposite is true for housings type SAF. Up to size 520/220/317/617 they are made with 2 holes on the base. When four holes are needed, the prefix "F" must be added. Ex: F-SAF-516. The specification of the number of holes on the base can be added to any housing series.
Bearings	Even if the scope of delivery excludes the bearings, their exact identification should always be given in order to dimension the locating rings or lateral side covers.

When no specific requests are made, the housings will be manufactured in accordance to their standard, as shown on the dimensional tables of this catalog, i.e. shafts in millimeters, constructive form LP (non-locating bearing, passing shaft), Standard seal and material of the series.

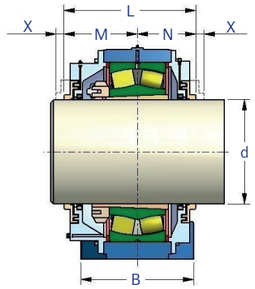




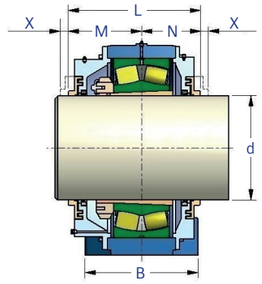
BC - Locating bearing, blind shaft



LC - Non-locating bearing, blind shaft



BP - Locating bearing, passing shaft

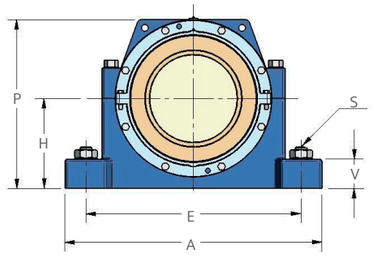


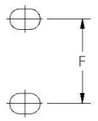
LP - Non-locating bearing, passing shaft

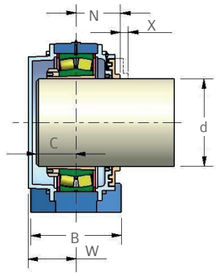
- See page 08 for technical features.
- Standard seal "ASR" - "taconite" labyrinth seal with retainer, see page 06 (reference). For seal types ASZF, AS, R, ZF, TC and GS the dimensions are maintained. Should a different type of seal be requested, the dimensions of the columns "L", "N" and "M" on the table can be modified, but our engineering department should be consulted for more information.
- They can seat split bearings, however, the designation must be changed by adding the prefix B. For application of other bearing series, please consult our Engineering Department.
- Up to size 56 (inclusively) the bearing's axial movement is blocked by locating rings, for bigger sizes the bearing's axial movement is blocked by the side covers.
- Specification example: HSBM-157-BP-ASZF= HSBM housing, size 157, made of grey cast iron, with 2 holes on the base, prepared for 22215-K bearing and HA-315 adapter sleeve, for locating bearing and passing shaft, with taconite seal composed of AS axial labyrinth and ZF retainer.
- FNHSBM-15-LC-ASR= FNHSBM housing, size 15, made of nodular cast iron with 4 holes on the base, prepared for 22234-K bearing and H-3134 adapter sleeve, for non-locating bearing and blind shaft, with taconite proof seal composed of AS axial labyrinth and R retainer.
- These housings are standardized with two holes on their base up to size 32, but they can be supplied with 04 holes on the base by simply adding the prefix "F" on the housing reference (Ex. FHSBM-15BP-ASZF). Beyond size 32 they have four holes on the base. The fixing screw dimensions for two holes on the base, are located in the column "S" in parenthesis.

Housing	Shaft diameter		Bearing	Adapter sleeve (complete)	Dimensions (mm)														Weight (kg)
	mm	inches			H	E	A	B	C	F	L	M	N	P	S	V	W	X	
HSBM 084		1.1/4"		HE 308															
HSBM 086		1.3/8"	22208K	HS 308	60	170	205	60	26	30	99	53	46	113,5	3/8"	25	41	8	3,5
HSBM 08	35			H 308											(1/2")				
HSBM 097		1.7/16"		HA 309															
HSBM 098		1.1/2"	22209K	HE 309	60	170	205	60	28	30	106,5	56,5	50	119,5	3/8"	25	44	8	4
HSBM 09	40			H 309											(1/2")				
HSBM 100		1.5/8"		HS 310															
HSBM 101		1.11/16"	22210K	HA 310	60	170	205	60	28	30	114	57	57	122	3/8"	25	43	8	4,5
HSBM 102		1.3/4"		HE 310											(1/2")				
HSBM 10	45			H 310															
HSBM 114		1.7/8"		HS 311															
HSBM 115		1.15/16"	22211K	HA 311	70	210	255	70	30	35	116	58	58	137	1/2"	28	45	9	5,5
HSBM 11	50			H 311											(5/8")				
HSBM 110		2"		HE 311															
HSBM 122		2.1/8"	22212K	HS 312	70	210	255	70	34	35	116,5	61,5	55	140	1/2"	30	50	9	6
HSBM 12	55			H 312											(5/8")				
HSBM 133		2.3/16"		HA 313															
HSBM 134		2.1/4"	22213K	HE 313	80	230	275	80	36	40	116,5	63,5	53	157	1/2"	30	54	9	7,5
HSBM 13	60			H 313											(5/8")				
HSBM 136		2.3/8"		HS 313															
HSBM 157		2.7/16"		HA 315															
HSBM 158		2.1/2"	22215K	HE 315	80	230	280	80	38	45	120,5	65,5	55	162	1/2"	30	56	11	9
HSBM 15	65			H 315											(5/8")				
HSBM 161		2.11/16"		HA 316															
HSBM 162		2.3/4"	22216K	HE 316	95	260	315	90	42	55	141	70,5	70,5	183	1/2"	32	60	12	14,5
HSBM 16	70			H 316											(3/4")				
HSBM 175		2.15/16"		HA 317															
HSBM 17	75		22217K	H 317	95	260	320	90	44	55	146	73	73	189	5/8"	32	62	12	14,5
HSBM 170		3"		HE 317											(3/4")				

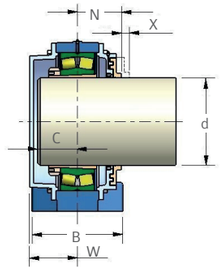
Housing	Shaft diameter		Bearing	Adapter sleeve (complete)	Dimensions (mm)														Weight (kg)
	mm	inches			H	E	A	B	C	F	L	M	N	P	S	V	W	X	
HSBM 18	80			H 318															
HSBM 183		3.3/16"	22218K	HA 318	100	290	345	100	46	55	148	74	74	200	5/8"	35	64	11	15
HSBM 184		3.1/4"		HE 318											(3/4")				
HSBM 194		3.1/4"	22219K	HE 319	112	290	345	100	50	55	155,5	81,5	74	215	5/8"	35	68	12	17,5
HSBM 19	85			H 319											(3/4")				
HSBM 207		3.7/16"		HA 320															
HSBM 208		3.1/2"	22220K	HE 320	112	320	380	110	54	60	162	81	81	223	7/8"	40	72	13	22
HSBM 20	90			H 320											(7/8")				
HSBM 221		3.11/16"		HS 322															
HSBM 22	100		22222K	H 322	125	350	410	120	58	70	157	86	71	249	7/8"	45	76	13	30
HSBM 225		3.15/16"		HA 322											(7/8")				
HSBM 220		4"		HE 322															
HSBM 243		4.3/16"		HA 3124															
HSBM 244		4.1/4"	22224K	HE 3124	140	350	410	120	60	70	182	91	91	272	7/8"	45	79	14	31
HSBM 24	110			H 3124											(7/8")				
HSBM 267		4.7/16"		HA 3126															
HSBM 268		4.1/2"	22226K	HE 3126	150	380	445	130	64	82	202	101	101	291	1"	50	83	16	43
HSBM 26	115			H 3126											(1")				
HSBM 28	125			H 3128															
HSBM 285		4.15/16"	22228K	HA 3128	150	420	500	150	68	85	218	109	109	298	1.1/4"	50	87	15	51
HSBM 280		5"		HE 3128											(1.1/4")				
HSBM 303		5.3/16"		HA 3130															
HSBM 304		5.1/4"	22230K	HE 3130	160	450	530	160	74	95	231	115,5	115,5	321	1.1/4"	60	101	15	57
HSBM 30	135			H 3130											(1.1/4")				
HSBM 327		5.7/16"		HA 3132															
HSBM 328		5.1/2"	22232K	HE 3132	170	470	550	160	76	95	244	127	117	342	1.1/4"	60	107	18	70
HSBM 32	140			H 3132											(1.1/4")				
HSBM 34	150			H 3134															
HSBM 345		5.15/16"	23134K	HA 3134	170	430	510	180	79	100	243	129	114	336	1"	70	106	16	80,5
HS 340		6"		HE 3134															
HSBM 367		6.7/16"		HA 3136															
HSBM 368		6.1/2"	23136K	HE 3136	180	450	530	190	86	110	254	136	118	357	1"	75	113	18	82,5
HSBM 36	160			H 3136															
HSBM 38	170			H 3138															
HSBM 382		6.3/4"	23138K	HE 3138	190	480	560	210	92	120	269	144	125	379	1"	80	119	19	97,5
HSBM 385		6.15/16"		HA 3138															
HSBM 400		7"		HE 3140															
HSBM 40	180		23140K	H 3140	210	510	610	230	96	130	277	147	130	410	1.1/4"	85	123	18	116,5
HSBM 403		7.3/16"		HA 3140															
HSBM 448		7.1/2"		HE 3144															
HSBM 44	200		23144K	H 3144	220	540	640	240	102	140	296,5	157,5	139	437	1.1/4"	90	129	18,5	195
HSBM 445		7.15/16"		HA 3144															
HSBM 487		8.7/16"		HA 3148															
HSBM 488		8.1/2"	23148K	HE 3148	240	600	700	260	106	150	313	166	147	473	1.1/4"	95	135	20	123
HSBM 48	220			H 3148															
HSBM 527		9.7/16"		HA 3152															
HSBM 52	240		23152K	H 3152	260	650	770	280	118	160	332	183	149	516	1.1/2"	100	152	22	160
HSBM 528		9.1/2"		HE 3152															
HSBM 565		9.15/16"		HA 3156															
HSBM 560		10"	23156K	HE 3156	280	670	790	280	120	160	344	195	149	547	1.1/2"	105	156	21	163,5
HSBM 56	260			H 3156															
HSBM 605		10.15/16"		HA 3160															
HSBM 600		11"	23160K	HE 3160	300	710	830	310	134	190	376	208	168	591	1.1/2"	110	165	23	267
HSBM 60	280			H 3160															
HSBM 647		11.7/16"		HA 3164															
HSBM 648		11.1/2"	23164K	HE 3164	320	750	880	330	144	200	403	223	180	633	1.1/2"	115	195	26	284,5
HSBM 64	300			H 3164															
HSBM 680		12"		HE 3168															
HSBM 687		12.7/16"	23168K	HA 3168	350	840	1000	350	168	210	442	251	191	684	1.7/8"	120	198	27	322,5
HSBM 68	320			H 3168															
HSBM 725		12.15/16"		HA 3172															
HSBM 720		13"	23172K	HE 3172	360	860	1020	370	172	220	446	252	194	704	1.7/8"	125	204	26	395,5
HSBM 72	340			H 3172															
HSBM 765		13.15/16"		HA 3176															
HSBM 760		14"	23176K	HE 3176	370	880	1040	390	174	230	446,5	253,5	193	724	1.7/8"	130	215	27	418,5
HSBM 76	360			H 3176															
HSBM 805		14.15/16"		HA 3180															
HSBM 800		15"	23180K	HE 3180	390	965	1118	394	180	235	472	262	210	761	2"	127	228	29	552
HSBM 80	380			H 3180															
HSBM 847		15.7/16"		HA 3184															
HSBM 848		15.1/2"	23184K	HE 3184	425	1035	1200	419	201	251	534	287	247	824	2"	127	241	29	610,5
HSBM 84	400			H 3184															
HSBM 885		15.15/16"		HA 3188															
HSBM 880		16"	23188K	HE 3188	425	1035	1200	419	202,5	251	536	288	248	836	2"	127	242,5	29	709
HSBM 88	410			H 3188															
HSBM 925		16.15/16"		HA 3192															
HSBM 920		17"	23192K	HE 3192	530	1270	1500	420	215,5	240	554	302	252	962	2.7/8"	160	255,5	29	834
HSBM 92	430			H 3192															
HSBM 965		17.15/16"		HA 3196															
HSBM 960		18"	23196K	HE 3196	550	1300	1530	430	220	245	585	324	261	1000	2.7/8"	165	260	31	982,5
HSBM 96	450			H 3196															
HSBM 5007		18.7/16"		HA 31/500															
HSBM 5008		18.1/2"	231/500K	HE 31/500	580	1350	1580	460	234	260	598	329	269	1051	2.7/8"	175	274	31	1133,5
HSBM 500	470			H 31/500															



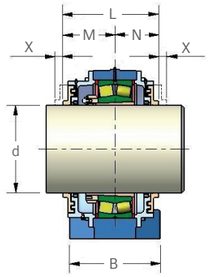




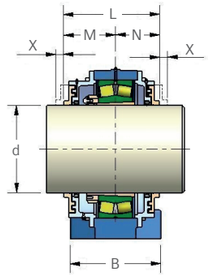
BC - Locating bearing, blind shaft



LC - Non-locating bearing, blind shaft



BP - Locating bearing, passing shaft

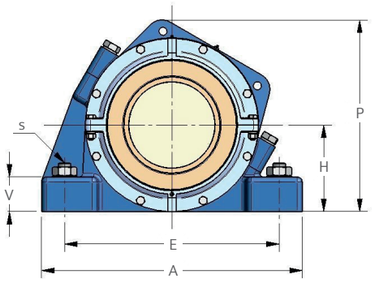


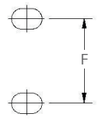
LP - Non-locating bearing, passing shaft

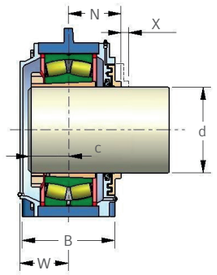
- See page 08 for technical features.
- Standard seal "ASR" - "taconite" labyrinth seal with retainer, see page 06 (reference). For seal types ASZF, AS, R, ZF, TC and GS the dimensions are maintained. Should a different type of seal be requested, the dimensions of the columns "L", "N" and "M" on the table can be modified, but our engineering department should be consulted for more information.
- These housings are standardized with four holes on their base, but up to size 20 they can be supplied with two holes on the base by simply adding the suffix "D" to the housing's reference (Ex. HSBPD-15-BP-ASZF). The bolt dimensions for housings with two holes on the base are located in the column "S", in brackets.
- They can seat split bearings, however, the designation must be changed by adding the prefix B. For application of other bearing series, please consult our Engineering Department.
- Up to size 56 (inclusively) the bearing's axial movement is blocked by locating rings, for bigger sizes the bearing's axial movement is blocked by the side covers.
- Specification example: HSBP-157-BP-ASZF = HSBP housing, size 157, made of gray cast iron, with four holes on the base, appropriate for seating 22215-K bearing + HA-315 adapter sleeve, for locating bearing and passing shaft, with taconite seal composed of AS axial labyrinth and ZF retainer.

Housing	Shaft diameter		Bearing	Adapter sleeve (complete)	Dimensions (mm)														Weight (kg)
	mm	inches			H	E	A	B	C	F	L	M	N	P	S	V	W	X	
HSBP 097		1.7/16"		HA 309															
HSBP 098		1.1/2"	22209K	HE 309	57,1	168	210	60	28	30,2	106,5	56,5	50	117	3/8"	22	44	8	4
HSBP 09	40			H 309											(1/2")				
HSBP 101		1.11/16"		HA 310															
HSBP 102		1.3/4"	22210K	HE 310	63,5	171	210	60	28	30,2	114	57	57	126	3/8"	25	43	8	4,5
HSBP 10	45			H 310											(1/2")				
HSBP 115		1.15/16"		HA 311															
HSBP 11	50		22211K	H 311	69,8	194	244	70	30	35	116	58	58	137	1/2"	25	45	9	5,5
HSBP 110		2"		HE 311											(5/8")				
HSBP 133		2.3/16"		HA 313															
HSBP 134		2.1/4"	22213K	HE 313	76,2	224	279	79	36	39,7	116,5	63,5	53	153	1/2"	25	54	9	7
HSBP 13	60			H 313											(5/8")				
HSBP 157		2.7/16"		HA 315															
HSBP 158		2.1/2"	22215K	HE 315	82,6	232	286	79	38	47,6	120,5	65,5	55	165	1/2"	29	56	11	9
HSBP 15	65			H 315											(5/8")				
HSBP 161		2.11/16"		HA 316															
HSBP 162		2.3/4"	22216K	HE 316	88,9	262	330	89	42	54	141	70,5	70,5	177	5/8"	32	60	12	14,5
HSBP 16	70			H 316											(3/4")				
HSBP 175		2.15/16"		HA 317															
HSBP 17	75		22217K	H 317	95,2	265	330	89	44	54	146	73	73	189	5/8"	32	62	12	14,5
HSBP 170		3"		HE 317											(3/4")				
HSBP 18	80			H 318															
HSBP 183		3.3/16"	22218K	HA 318	101,6	279	349	98	46	54	148	74	74	202	5/8"	35	64	11	15
HSBP 184		3.1/4"		HE 318											(3/4")				
HSBP 207		3.7/16"		HA 320															
HSBP 208		3.1/2"	22220K	HE 320	114,3	314	387	111	54	60,3	162	81	81	225	3/4"	38	72	13	21
HSBP 20	90			H 320											(7/8")				
HSBP 221		3.11/16"		HS 322															
HSBP 22	100		22222K	H 322	125,4	344	419	121	58	69,8	157	86	71	249	3/4"	41	76	13	30
HSBP 225		3.15/16"		HA 322															
HSBP 220		4"		HE 322															

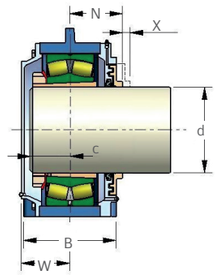
Housing	Shaft diameter		Bearing	Adapter sleeve (complete)	Dimensions (mm)														Weight (kg)
	mm	inches			H	E	A	B	C	F	L	M	N	P	S	V	W	X	
HSBP 243		4.3/16"		HA 3124															
HSBP 244		4.1/4"	22224K	HE 3124	133,3	352	419	121	60	69,8	182	91	91	265	3/4"	44	79	14	31
HSBP 24	110			H 3124															
HSBP 267		4.7/16"		HA 3126															
HSBP 268		4.1/2"	22226K	HE 3126	152,4	389	467	140	64	82,6	202	101	101	293	7/8"	48	83	16	43
HSBP 26	115			H 3126															
HSBP 28	125			H 3128															
HSBP 285		4.15/16"	22228K	HA 3128	152,4	421	511	149	68	85,7	218	109	109	300	1"	51	87	15	51
HSBP 280		5"		HE 3128															
HSBP 303		5.3/16"		HA 3130															
HSBP 304		5.1/4"	22230K	HE 3130	160,3	448	540	159	74	95,2	231	115,5	115,5	321	1"	51	101	15	57
HSBP 30	135			H 3130															
HSBP 327		5.7/16"		HA 3132															
HSBP 328		5.1/2"	22232K	HE 3132	169,9	465	559	159	76	95,2	244	127	117	342	1"	51	107	18	70
HSBP 32	140			H 3132															
HSBP 34	150			H 3134															
HSBP 345		5.15/16"	22234K	HA 3134	179,4	521	629	171	79	108	256	128	128	368	1"	54	108	16	81
HSBP 340		6"		HE 3134															
HSBP 36	160			H 3136															
HSBP 367		6.7/16"	22236K	HA 3136	190,5	565	679	181	79	117,5	249,5	131,5	118	380	1"	54	114	18	82,5
HSBP 368		6.1/2"		HE 3136															
HSBP 38	170			H 3138															
HSBP 382		6.3/4"	22238K	HE 3138	200	584	711	190	86	114,3	263	138	125	400	1.1/4"	60	113	19	97,5
HSBP 385		6.15/16"		HA 3138															
HSBP 400		7"		HE 3140															
HSBP 40	180		22240K	H 3140	209,6	603	749	203	89	127	282	141	141	430	1.1/4"	60	123	18	116
HSBP 403		7.3/16"		HA 3140															
HSBP 448		7.1/2"		HE 3144															
HSBP 44	200		22244K	H 3144	241,3	668	832	222	95	133,3	303	151,5	151,5	475	1.1/2"	70	139	18,5	120
HSBP 445		7.15/16"		HA 3144															
HSBP 487		8.7/16"		HA 3048															
HSBP 488		8.1/2"	23048K	HE 3048	209,6	603	749	203	92	127	282	157	125	420	1.1/4"	60	125	20	132
HSBP 48	220			H 3048															
HSBP 527		9.7/16"		HA 3052															
HSBP 52	240		23052K	H 3052	241,3	668	832	222	98	133,3	298	166	132	473	1.1/2"	70	153	24	173,5
HSBP 528		9.1/2"		HE 3052															
HSBP 565		9.15/16"		HA 3056															
HSBP 560		10"	23056K	HE 3056	241,3	668	832	222	105	133,3	309	174	135	485	1.1/2"	70	158	23	163,5
HSBP 56	260			H 3056															
HSBP 605		10.15/16"		HA 3060															
HSBP 600		11"	23060K	HE 3060	304,8	841	972	375	111	228,6	326	186	140	572	1.5/8"	86	175	23	267
HSBP 60	280			H 3060															
HSBP 647		11.7/16"		HA 3064															
HSBP 648		11.1/2"	23064K	HE 3064	304,8	841	972	375	117	228,6	347,5	194,5	153	583	1.5/8"	86	176	26	282
HSBP 64	300			H 3064															
HSBP 680		12"		HE 3068															
HSBP 687		12.7/16"	23068K	HA 3068	304,8	832	991	387	127	254	375	210,5	164,5	606	1.7/8"	108	185	27	322,5
HSBP 68	320			H 3068															
HSBP 725		12.15/16"		HA 3072															
HSBP 720		13"	23072K	HE 3072	325,4	908	1060	400	127	266,7	380	213	167	636	1.7/8"	114	187	26	395,5
HSBP 72	340			H 3072															
HSBP 765		13.15/16"		HA 3076															
HSBP 760		14"	23076K	HE 3076	325,4	908	1060	400	130	266,7	381,5	211,5	170	710	1.7/8"	114	185	27	418,5
HSBP 76	360			H 3076															
HSBP 805		14.15/16"		HA 3080															
HSBP 80	380		23080K	H 3080	389,9	965	1118	394	141,5	234,9	415	223	192	734	2"	127	218	29	552
HSBP 800		15"		HE 3080															
HSBP 847		15.7/16"		HA 3084															
HSBP 848		15.1/2"	23084K	HE 3084	424,9	1035	1200	419	143	250,8	428	230	198	780	2"	127	214	29	610,5
HSBP 84	400			H 3084															
HSBP 885		15.15/16"		HA 3088															
HSBP 880		16"	23088K	HE 3088	424,9	1035	1200	419	155	250,8	437	243,5	193,5	797	2"	127	214	29	709
HSBP 88	410			H 3088															
HSBP 925		16.15/16"		HA 3092															
HSBP 920		17"	23092K	HE 3092	530	1270	1500	420	159	240	457	248,5	208,5	918	2.7/8"	160	226	29	834
HSBP 92	430			H 3092															
HSBP 965		17.15/16"		HA 3096															
HSBP 960		18"	23096K	HE 3096	550	1300	1530	430	160,5	245	476	255,5	220,5	946	2.7/8"	165	230	31	982,5
HSBP 96	450			H 3096															
HSBP 5007		18.7/16"		HA 30/500															
HSBP 5008		18.1/2"	230/500K	HE 30/500	580	1350	1580	460	170,5	260	487	268,5	218,5	990	2.7/8"	175	240	31	1133,5
HSBP 500	470			H 30/500															



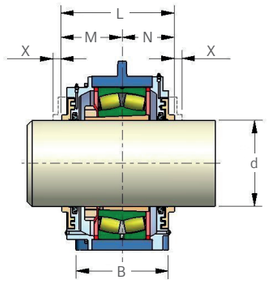




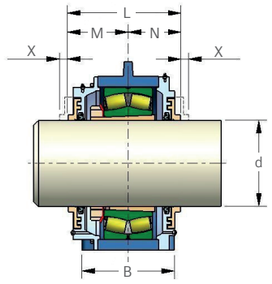
BC - Locating bearing, blind shaft



LC - Non-locating bearing, blind shaft



BP - Locating bearing, passing shaft

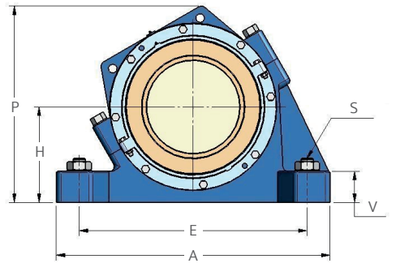


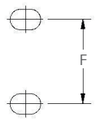
LP - Non-locating bearing, passing shaft

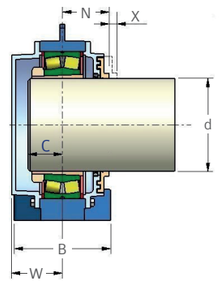
- See page 08 for technical features.
- Standard seal "ASR" - "taconite" labyrinth seal with retainer, see page 06 (reference).
- For seal types ASZF, AS, R, ZF, TC and GS, the dimensions are maintained. Should a different type of seal be requested, the dimensions of the columns "L", "N" and "M" on the table can be modified, but our engineering department should be consulted for more information.
- They can seat split bearings, however, the designation must be changed by adding the prefix B. For application of other bearing series, please consult our Engineering Department.
- These housing are standardized with four holes on the base.
- Up to size 56 (inclusively) the bearing's axial movement is blocked by locating rings, for bigger sizes the bearing's axial movement is blocked by the housing's side covers.
- Specification example: HSBM30K-157-BP-ASZF = HSBM30K housing, size 157, made of gray cast iron, with four holes on the base, appropriate for seating 22215-K bearing + HA-315 adapter sleeve, for locating bearing and passing shaft, with taconite seal composed of AS axial labyrinth and ZF retainer.

Housing	Shaft diameter		Bearing	Adapter sleeve (complete)	Dimensions (mm)													Weight (kg)
	mm	inches			H	E	A	B	C	F	L	M	N	P	S	V	W	X	
HSBM30K 084		1.1/4″		HE 308															
HSBM30K 086		1.3/8″	22208K	HS 308	60	170	205	60	26	30	99	53	46	143	3/8″	25	41	8	3,5
HSBM30K 08	35			H 308															
HSBM30K 097		1.7/16″		HA 309															
HSBM30K 098		1.1/2″	22209K	HE 309	60	170	205	60	28	30	106,5	56,5	50	147	3/8″	25	44	8	4
HSBM30K 09	40			H 309															
HSBM30K 100		1.5/8″		HS 310															
HSBM30K 101		1.11/16″	22210K	HA 310	60	170	205	60	28	30	114	57	57	149	3/8″	25	43	8	4,5
HSBM30K 102		1.3/4″		HE 310															
HSBM30K 10	45			H 310															
HSBM30K 114		1.7/8″		HS 311															
HSBM30K 115		1.15/16″	22211K	HA 311	70	210	255	70	30	35	116	58	58	145	1/2″	28	45	9	5,5
HSBM30K 11	50			H 311															
HSBM30K 110		2″		HE 311															
HSBM30K 122		2.1/8″	22212K	HS 312	70	210	255	70	34	35	116,5	61,5	55	173	1/2″	30	50	9	6
HSBM30K 12	55			H 312															
HSBM30K 133		2.3/16″		HA 313															
HSBM30K 134		2.1/4″	22213K	HE 313	80	230	275	80	36	40	116,5	63,5	53	160	1/2″	30	54	9	7,5
HSBM30K 13	60			H 313															
HSBM30K 136		2.3/8″		HS 313															
HSBM30K 157		2.7/16″		HA 315															
HSBM30K 158		2.1/2″	22215K	HE 315	80	230	280	80	38	45	120,5	65,5	55	180	1/2″	30	56	11	9
HSBM30K 15	65			H 315															
HSBM30K 161		2.11/16″		HA 316															
HSBM30K 162		2.3/4″	22216K	HE 316	95	260	315	90	42	55	141	70,5	70,5	218	1/2″	32	60	12	14,5
HSBM30K 16	70			H 316															
HSBM30K 175		2.15/16″		HA 317															
HSBM30K 17	75		22217K	H 317	95	260	320	90	44	55	146	73	73	222	5/8″	32	62	12	14,5
HSBM30K 170		3″		HE 317															
HSBM30K 18	80			H 318															
HSBM30K 183		3.3/16″	22218K	HA 318	100	290	345	100	46	55	148	74	74	230	5/8″	35	64	11	15
HSBM30K 184		3.1/4″		HE 318															
HSBM30K 194		3.1/4″	22219K	HE 319	112	290	345	100	50	55	155,5	81,5	74	249	5/8″	35	68	12	17,5
HSBM30K 19	85			H 319															
HSBM30K 207		3.7/16″		HA 320															
HSBM30K 208		3.1/2″	22220K	HE 320	112	320	380	110	54	60	162	81	81	265	7/8″	40	72	13	22
HSBM30K 20	90			H 320															

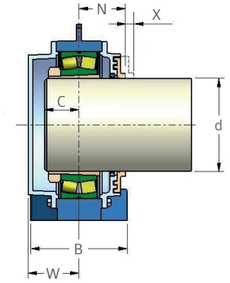
Housing	Shaft diameter		Bearing	Adapter sleeve (complete)	Dimensions (mm)													Weight (kg)
	mm	inches			H	E	A	B	C	F	L	M	N	P	S	V	W	X	
HSBM30K 221		3.11/16″		HS 322															
HSBM30K 22	100		22222K	H 322	125	350	410	120	58	70	157	86	71	286	7/8″	45	76	13	30
HSBM30K 225		3.15/16″		HA 322															
HSBM30K 220		4″		HE 322															
HSBM30K 243		4.3/16″		HA 3124															
HSBM30K 244		4.1/4″	22224K	HE 3124	140	350	410	120	60	70	182	91	91	310	7/8″	45	79	14	31
HSBM30K 24	110			H 3124															
HSBM30K 267		4.7/16″		HA 3126															
HSBM30K 268		4.1/2″	22226K	HE 3126	150	380	445	130	64	82	202	101	101	330	1″	50	83	16	43
HSBM30K 26	115			H 3126															
HSBM30K 28	125			H 3128															
HSBM30K 285		4.15/16″	22228K	HA 3128	150	420	500	150	68	85	218	109	109	338	1.1/4″	50	87	15	51
HSBM30K 280		5″		HE 3128															
HSBM30K 303		5.3/16″		HA 3130															
HSBM30K 304		5.1/4″	22230K	HE 3130	160	450	530	160	74	95	231	115,5	115,5	358	1.1/4″	60	101	15	57
HSBM30K 30	135			H 3130															
HSBM30K 327		5.7/16″		HA 3132															
HSBM30K 328		5.1/2″	22232K	HE 3132	170	470	550	160	76	95	244	127	117	379	1.1/4″	60	107	18	70
HSBM30K 32	140			H 3132															
HSBM30K 34	150			H 3134															
HSBM30K 345		5.15/16″	23134K	HA 3134	170	430	510	180	79	100	243	129	114	378	1″	70	106	16	80,5
HSBM30K 340		6″		HE 3134															
HSBM30K 36	160			H 3136															
HSBM30K 367		6.7/16″	23136K	HA 3136	180	450	530	190	86	110	254	136	118	398	1″	75	113	18	82,5
HSBM30K 368		6.1/2″		HE 3136															
HSBM30K 38	170			H 3138															
HSBM30K 382		6.3/4″	23138K	HE 3138	190	480	560	210	92	120	269	144	125	413	1″	80	119	19	97,5
HSBM30K 385		6.15/16″		HA 3138															
HSBM30K 400		7″		HE 3140															
HSBM30K 40	180		23140K	H 3140	210	510	610	230	96	130	277	147	130	452	1.1/4″	85	123	18	116,5
HSBM30K 403		7.3/16″		HA 3140															
HSBM30K 448		7.1/2″		HE 3144															
HSBM30K 44	200		23144K	H 3144	220	540	640	240	102	140	296,5	157,5	139	488	1.1/4″	90	129	18,5	195
HSBM30K 445		7.15/16″		HA 3144															
HSBM30K 487		8.7/16″		HA 3148															
HSBM30K 488		8.1/2″	23148K	HE 3148	240	600	700	260	106	150	313	166	147	530	1.1/4″	95	135	20	123
HSBM30K 48	220			H 3148															
HSBM30K 527		9.7/16″		HA 3152															
HSBM30K 52	240		23152K	H 3152	260	650	770	280	118	160	332	183	149	570	1.1/2″	100	152	22	160
HSBM30K 528		9.1/2″		HE 3152															
HSBM30K 565		9.15/16″		HA 3156															
HSBM30K 560		10″	23156K	HE 3156	280	670	790	280	120	160	344	195	149	600	1.1/2″	105	156	21	163,5
HSBM30K 56	260			H 3156															
HSBM30K 605		10.15/16″		HA 3160															
HSBM30K 600		11″	23160K	HE 3160	300	710	830	310	134	190	376	208	168	648	1.1/2″	110	165	23	267
HSBM30K 60	280			H 3160															
HSBM30K 647		11.7/16″		HA 3164															
HSBM30K 648		11.1/2″	23164K	HE 3164	320	750	880	330	144	200	403	223	180	707	1.1/2″	115	195	26	284,5
HSBM30K 64	300			H 3164															
HSBM30K 680		12″		HA 3168															
HSBM30K 687		12.7/16″	23168K	HE 3168	350	840	1000	350	168	210	442	251	191	740	1.7/8″	120	198	27	322,5
HSBM30K 68	320			H 3168															
HSBM30K 725		12.15/16″		HA 3172															
HSBM30K 720		13″	23172K	HE 3172	360	860	1020	370	172	220	446	252	194	760	1.7/8″	125	204	26	395,5
HSBM30K 72	340			H 3172															
HSBM30K 765		13.15/16″		HA 3176															
HSBM30K 760		14″	23176K	HE 3176	370	880	1040	390	174	230	446,5	253,5	193	780	1.7/8″	130	215	27	418,5
HSBM30K 76	360			H 3176															
HSBM30K 805		14.15/16″		HA 3180															
HSBM30K 800		15″	23180K	HE 3180	390	965	1118	394	180	235	472	262	210	850	2″	127	228	29	552
HSBM30K 80	380			H 3180															
HSBM30K 847		15.7/16″		HA 3184															
HSBM30K 848		15.1/2″	23184K	HE 3184	425	1035	1200	419	201	251	534	287	247	925	2″	127	241	29	610,5
HSBM30K 84	400			H 3184															
HSBM30K 885		15.15/16″		HA 3188															
HSBM30K 880		16″	23188K	HE 3188	425	1035	1200	419	202,5	251	536	288	248	925	2″	127	242,5	29	709
HSBM30K 88	410			H 3188															
HSBM30K 925		16.15/16″		HA 3192															
HSBM30K 920		17″	23192K	HE 3192	530	1270	1500	420	215,5	240	554	302	252	1000	2.7/8″	160	255,5	29	834
HSBM30K 92	430			H 3192															
HSBM30K 965		17.15/16″		HA 3196															
HSBM30K 960		18″	23196K	HE 3196	550	1300	1530	430	220	245	585	324	261	1100	2.7/8″	165	260	31	982,5
HSBM30K 96	450			H 3196															
HSBM30K 5007		18.7/16″		HA 31/500															
HSBM30K 5008		18.1/2″	231/500K	HE 31/500	580	1350	1580	460	234	260	598	329	269	1200	2.7/8″	175	274	31	1133,5
HSBM30K 500	470			H 31/500															



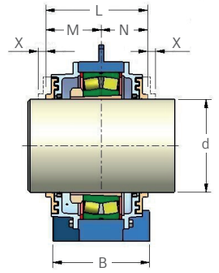




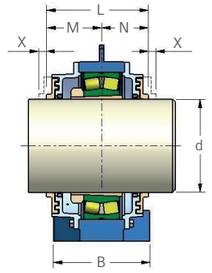
BC - Locating bearing, blind shaft



LC - Non-locating bearing, blind shaft



BP - Locating bearing, passing shaft



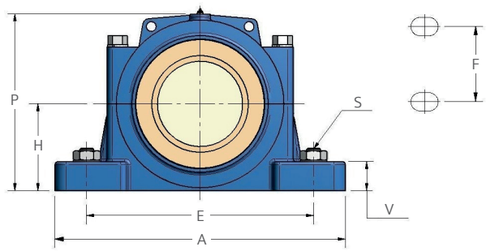
LP - Non-locating bearing, passing shaft

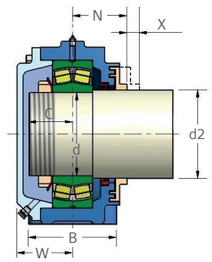
- See page 09 for technical features.
- Standard seal ASR - "taconite" labyrinth seal with retainer - see page 06 (reference). For seal types ASZF, AS, R, ZF, TC and GS, the dimensions are maintained. Should a different type of seal be requested, the dimensions of the columns "L", "N" and "M" of the table can be modified, but our engineering department should be consulted for more information.
- These housings are standardized with four holes on their base.
- They can seat split bearings, however, the designation must be changed by adding the prefix B. For application of other bearing series, please consult our Engineering Department.
- Up to size 56 (inclusively) the bearing's axial movement is blocked by locating rings, for bigger sizes the bearing's axial movement is blocked by the housing's side covers.
- Specification example: HSBP30K-157-BP-ASZF = HSBP30K housing, size 157, made of gray cast iron, with four holes on the base, appropriate for seating 22215-K bearing + HA-315 adapter sleeve, for locating bearing and passing shaft, with taconite seal composed of AS axial labyrinth and ZF retainer.
- NHSBP30K15-LC-ASR= NSBP30K housing , size 15, made of ductile cast iron, appropriate for seating 22215-K bearing + H-315 adapter sleeve, for non locating bearing and blind shaft, with taconite proof seal composed of AS axial labyrinth and R retainer.

Housing	Shaft diameter		Bearing	Adapter sleeve (complete)	Dimensions (mm)														Weight (kg)
	mm	inches			H	E	A	B	C	F	L	M	N	P	S	V	W	X	
HSBP30K 097		1.7/16"		HA 309															
HSBP30K 098		1.1/2"	22209K	HE 309	57,1	168	210	60	28	30,2	106,5	56,5	50	142	3/8"	22	44	8	4
HSBP30K 09	40			H 309															
HSBP30K 101		1.11/16"		HA 310															
HSBP30K 102		1.3/4"	22210K	HE 310	63,5	171	210	60	28	30,2	114	57	57	152	3/8"	25	43	8	4,5
HSBP30K 10	45			H 310															
HSBP30K 115		1.15/16"		HA 311															
HSBP30K 11	50		22211K	H 311	69,8	194	244	70	30	35	116	58	58	145	1/2"	25	45	9	5,5
HSBP30K 110		2"		HE 311															
HSBP30K 133		2.3/16"		HA 313															
HSBP30K 134		2.1/4"	22213K	HE 313	76,2	224	279	79	36	39,7	116,5	63,5	53	156	1/2"	25	54	9	7
HSBP30K 13	60			H 313															
HSBP30K 157		2.7/16"		HA 315															
HSBP30K 158		2.1/2"	22215K	HE 315	82,6	232	286	79	38	47,6	120,5	65,5	55	183	1/2"	29	56	11	9
HSBP30K 15	65			H 315															
HSBP30K 161		2.11/16"		HA 316															
HSBP30K 162		2.3/4"	22216K	HE 316	88,9	262	330	89	42	54	141	70,5	70,5	212	5/8"	32	60	12	14,5
HSBP30K 16	70			H 316															
HSBP30K 175		2.15/16"		HA 317															
HSBP30K 17	75		22217K	H 317	95,2	265	330	89	44	54	146	73	73	222	5/8"	32	62	12	14,5
HSBP30K 170		3"		HE 317															
HSBP30K 18	80			H 318															
HSBP30K 183		3.3/16"	22218K	HA 318	101,6	279	349	98	46	54	148	74	74	231	5/8"	35	64	11	15
HSBP30K 184		3.1/4"		HE 318															
HSBP30K 207		3.7/16"		HA 320															
HSBP30K 208		3.1/2"	22220K	HE 320	114,3	314	387	111	54	60,3	162	81	81	267	3/4"	38	72	13	21
HSBP30K 20	90			H 320															
HSBP30K 221		3.11/16"		HS 322															
HSBP30K 22	100		22222K	H 322	125,4	344	419	121	58	69,8	157	86	71	287	3/4"	41	76	13	30
HSBP30K 225		3.15/16"		HA 322															
HSBP30K 220		4"		HE 322															
HSBP30K 243		4.3/16"		HA 3124															
HSBP30K 244		4.1/4"	22224K	HE 3124	133,3	352	419	121	60	69,8	182	91	91	303	3/4"	44	79	14	31
HSBP30K 24	110			H 3124															
HSBP30K 267		4.7/16"		HA 3126															
HSBP30K 268		4.1/2"	22226K	HE 3126	152,4	389	467	140	64	82,6	202	101	101	332	7/8"	48	83	16	43
HSBP30K 26	115			H 3126															

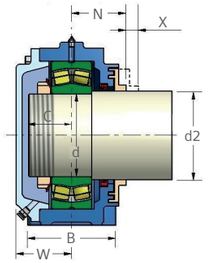
Housing	Shaft diameter		Bearing	Adapter sleeve (complete)	Dimensions (mm)														Weight (kg)
	mm	inches			H	E	A	B	C	F	L	M	N	P	S	V	W	X	
HSBP30K 28	125			H 3128															
HSBP30K 285		4.15/16"	22228K	HA 3128	152,4	421	511	149	68	85,7	218	109	109	341	1"	51	87	15	51
HSBP30K 280		5"		HE 3128															
HSBP30K 303		5.3/16"		HA 3130															
HSBP30K 304		5.1/4"	22230K	HE 3130	160,3	448	540	159	74	95,2	231	115,5	115,5	358	1"	51	101	15	57
HSBP30K 30	135			H 3130															
HSBP30K 327		5.7/16"		HA 3132															
HSBP30K 328		5.1/2"	22232K	HE 3132	169,9	465	559	159	76	95,2	244	127	117	379	1"	51	107	18	70
HSBP30K 32	140			H 3132															
HSBP30K 34	150			H 3134															
HSBP30K 345		5.15/16"	22234K	HA 3134	179,4	521	629	171	79	107,9	256	128	128	401	1"	54	108	16	81
HSBP30K 340		6"		HE 3134															
HSBP30K 367		6.7/16"		HA 3136															
HSBP30K 368		6.1/2"	22236K	HE 3136	190,5	565	679	181	79	117,5	249,5	131,5	118	417	1"	54	114	18	82,5
HSBP30K 36	160			H 3136															
HSBP30K 38	170			H 3138															
HSBP30K 382		6.3/4"	22238K	HE 3138	200	584	711	190	86	114,3	263	138	125	440	1.1/4"	60	113	19	97,5
HSBP30K 385		6.15/16"		HA 3138															
HSBP30K 400		7"		HE 3140															
HSBP30K 40	180		22240K	H 3140	209,6	603	749	203	89	127	282	141	141	462	1.1/4"	60	123	18	116
HSBP30K 403		7.3/16"		HA 3140															
HSBP30K 448		7.1/2"		HE 3144															
HSBP30K 44	200		22244K	H 3144	241,3	668	832	222	95	133,3	303	151,5	151,5	532	1.1/2"	70	139	18,5	120
HSBP30K 445		7.15/16"		HA 3144															
HSBP30K 487		6.7/16"		HA 3048															
HSBP30K 488		8.1/2"	23048K	HE 3048	209,6	603	749	203	92	127	282	157	125	478	1.1/4"	60	125	20	132
HSBP30K 48	220			H 3048															
HSBP30K 527		9.7/16"		HA 3052															
HSBP30K 52	240		23052K	H 3052	241,3	668	832	222	98	133,3	298	166	132	538	1.1/2"	70	153	24	173,5
HSBP30K 528		9.1/2"		HE 3052															
HSBP30K 565		9.15/16"		HA 3056															
HSBP30K 560	260	10"	23056K	HE 3056	241,3	668	832	222	105	133,3	309	174	135	551	1.1/2"	70	158	23	163,5
HSBP30K 56				H 3056															
HSBP30K 605		10.15/16"		HA 3060															
HSBP30K 600		11"	23060K	HE 3060	304,8	841	972	375	111	228,6	326	186	140	624	1.5/8"	86	175	23	267
HSBP30K 60	280			H 3060															
HSBP30K 647		11.7/16"		HA 3064															
HSBP30K 648		11.1/2"	23064K	HE 3064	304,8	841	972	375	117	228,6	347,5	194,5	153	634	1.5/8"	86	176	26	282
HSBP30K 64	300			H 3064															
HSBP30K 680		12"		HE 3068															
HSBP30K 687		12.7/16"	23068K	HA 3068	304,8	832	991	387	127	254	375	210,5	164,5	672	1.7/8"	108	185	27	322,5
HSBP30K 68	320			H 3068															
HSBP30K 725		12.15/16"		HA 3072															
HSBP30K 720		13"	23072K	HE 3072	325,4	908	1060	400	127	266,7	380	213	167	700	1.7/8"	114	187	26	395,5
HSBP30K 72	340			H 3072															
HSBP30K 765		13.15/16"		HA 3076															
HSBP30K 760		14"	23076K	HE 3076	325,4	908	1060	400	130	266,7	381,5	211,5	170	710	1.7/8"	114	185	27	418,5
HSBP30K 76	360			H 3076															
HSBP30K 805		14.15/16"		HA 3080															
HSBP30K 80	380		23080K	H 3080	389,9	965	1118	394	141,5	234,9	415	223	192	850	2"	127	218	29	552
HSBP30K 800		15"		HE 3080															
HSBP30K 847		15.7/16"		HA 3084															
HSBP30K 848		15.1/2"	23084K	HE 3084	424,9	1035	1200	419	143	250,8	428	230	198	925	2"	127	214	29	610,5
HSBP30K 84	400			H 3084															
HSBP30K 885		15.15/16"		HA 3088															
HSBP30K 880		16"	23088K	HE 3088	424,9	1035	1200	419	155	250,8	437	243,5	193,5	925	2"	127	214	29	709
HSBP30K 88	410			H 3088															
HSBP30K 925		16.15/16"		HA 3092															
HSBP30K 920		17"	23092K	HE 3092	530	1270	1500	420	159	240	457	248,5	208,5	1000	2.7/8"	160	226	29	834
HSBP30K 92	430			H 3092															
HSBP30K 965		17.15/16"		HA 3096															
HSBP30K 960		18"	23096K	HE 3096	550	1300	1530	430	160,5	245	476	255,5	220,5	1100	2.7/8"	165	230	31	982,5
HSBP30K 96	450			H 3096															
HSBP30K 5007		18.7/16"		HA 30/500															
HSBP30K 5008		18.1/2"	230/500K	HE 30/500	580	1350	1580	460	170,5	260	487	268,5	218,5	1200	2.7/8"	175	240	31	1133,5
HSBP30K 500	470			H 30/500															

3.5 | SBPC

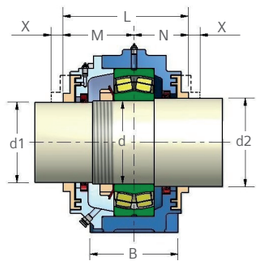




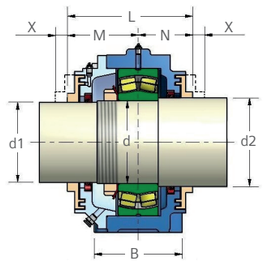
BC - Locating bearing, blind shaft



LC - Non-locating bearing, blind shaft



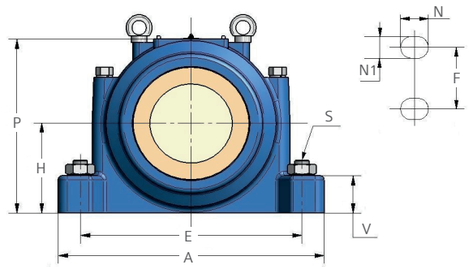
BP - Locating bearing, passing shaft

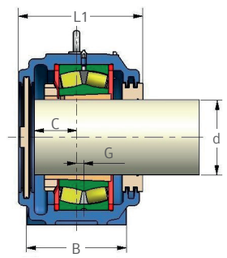


LP - Non-locating bearing, passing shaft

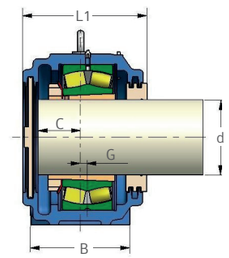
- See page 09 for technical features.
- Standard seal "AS" – axial labyrinth, see page 05. For seal types R, ZF, GS and TC, the dimensions are maintained. Should a different type of seal be requested, the dimensions of the columns "L", "N" and "M" on the table can be modified, but our engineering department should be consulted for more information
- For applications with other bearing series or other shaft diameters, please consult our Engineering Department.
- Up to size 18 these housings can be supplied with two holes on the base by simply adding the suffix "D" to the housing designation (Ex. SBPCD-18-BP-AS). The dimensions of the set bolts for two holes on the base can be found in the column "S", between brackets.
- Specification example: SBPC-15-BP-AS = SBPC housing, size 15, made of grey cast iron, with 4 holes on the base, prepared for 22215-C bearing, for locating bearing and passing shaft, with AS axial labyrinth seal.
- NSBPC-D-15-LC-ASR = NSBPC-D housing, size 15, made of nodular cast iron, with 2 holes on the base, prepared for 22215-C bearing, for non-locating bearing and blind shaft, with taconite seal composed of AS axial labyrinth and retainer.

Housing	Bearing	Shaft diameter (Inches)		Shaft diamete (mm)			Dimensions (mm)														Weight (kg)
		dI	d2	d	dI	d2	H	E	A	B	C	F	L	M	N	P	S	V	W	X	
SBPC 09	22209C	1.11/16″	2.1/8″	45 m5	42,9	54	57,1	168	210	60	28	30,2	108	56	52	119	3/8″ (1/2″)	22	38	10	3,6
SBPC 10	22210C	1.7/8″	2.3/8″	50 m5	47,6	60,3	63,5	171	210	60	28	30,2	109	57	52	127	3/8″ (1/2″)	25	39	13	4
SBPC 11	22211C	2.1/16″	2.9/16″	55 m5	52,4	65,1	69,8	194	244	70	30	35	115	59	56	142	1/2″ (5/8″)	25	41	13	5,7
SBPC 13	22213C	2.7/16″	3.1/16″	65 m5	61,9	77,8	76,2	224	279	79	36	39,7	120	64	56	158	1/2″ (5/8″)	25	48	13	7,6
SBPC 15	22215C	2.13/16″	3.7/16″	75 m6	71,4	87,3	82,6	232	286	79	38	47,6	128	67	61	171	1/2″ (5/8″)	29	50	13	8,3
SBPC 16	22216C	3″	3.5/8″	80 m6	76,2	92,1	88,9	262	330	89	42	54	144	76	68	188	5/8″ (7/8″)	32	55	14	12,2
SBPC 17	22217C	3.3/16″	3.15/16″	85 m6	81	100	95,2	265	330	89	44	54	149	79	70	198	5/8″ (7/8″)	32	57	14	13,3
SBPC 18	22218C	3.3/8″	4.1/8″	90 m6	85,7	104,8	101,6	279	349	98	46	54	155	83	72	209	5/8″ (7/8″)	35	59	15	15,9
SBPC 20	22220C	3.13/16″	4.1/2″	100 m6	96,8	114,3	114,3	314	387	111	54	60,3	170	93	77	232	3/4″	38	67	16	22
SBPC 22	22222C	4.3/16″	4.7/8″	110 n6	106,4	123,8	125,4	344	419	121	58	69,8	180	99	81	258	3/4″	41	71	16	29
SBPC 24	22224C	4.9/16″	5.5/16″	120 n6	115,9	134,9	133,3	352	419	121	60	69,8	193	104	89	273	3/4″	44	74	18	33
SBPC 26	22226C	4.15/16″	5.7/8″	130 n6	125,4	149,2	152,4	389	467	140	64	82,6	211	115	96	305	7/8″	48	79	21	45
SBPC 28	22228C	5.5/16″	6.1/4″	140 n6	134,9	158,7	152,4	421	511	149	68	85,7	222	121	101	310	1″	51	84	21	49
SBPC 30	22230C	5.3/4″	6.5/8″	150 p6	146	168,3	160,3	448	540	159	74	95,2	239	127	112	328	1″	51	92	21	57
SBPC 32	22232C	6.1/16″	7″	160 p6	154	177,8	169,9	465	559	159	76	95,2	253	136	117	346	1″	51	99	23	67
SBPC 34	22234C	6.7/16″	7.7/16″	170 p6	163,5	188,9	179,4	521	629	171	79	107,9	261	143	118	370	1″	54	102	23	81
SBPC 36	22236C	6.7/8″	7.13/16″	180 p6	174,6	198,4	190,5	565	679	181	79	117,5	266	146	120	390	1″	54	102	23	95
SBPC 38	22238C	7.1/4″	8.3/8″	190 p6	184,1	212,7	200	584	711	190	86	114,3	279	152	127	410	1.1/4″	60	107	23	110
SBPC 40	22240C	7.5/8″	8.3/4″	200 p6	193,7	222,2	209,6	603	749	203	89	127	291	159	132	430	1.1/4″	60	111	23	123
SBPC 44	22244C	8.5/16″	9.9/16″	220 p6	211,1	242,9	241,3	668	832	222	95	133,3	309	170	139	485	1.1/2″	70	120	26	176
SBPC 48	23048C	9.3/16″	10.1/2″	240 p6	233,4	266,7	209,6	603	749	203	92	127	291	166	125	430	1.1/4″	60	122	26	113
SBPC 52	23052C	9.15/16″	11.1/4″	260 p6	252,4	285,7	241,3	668	832	222	98	133,3	305	173	132	485	1.1/2″	70	130	26	158
SBPC 56	23056C	10.3/4″	12″	280 p6	273	304,8	241,3	668	832	222	105	133,3	314	179	135	495	1.1/2″	70	137	26	159
SBPC 60	23060C	11.1/2″	13″	300 r6	292,1	330,2	304,8	841	972	375	111	228,6	346	197	149	588	1.5/8″	86	144	29	273



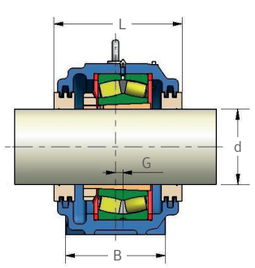


BC - Locating bearing, blind shaft

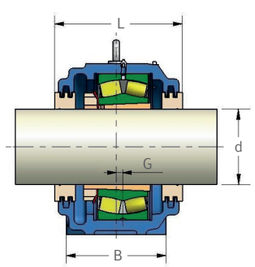


LC - Non-locating bearing, blind shaft

- See page 09 for technical features.
- Standard seal "TS" – radial labyrinth, see page 05.
- For applications with different bearing series please consult our Engineering Department.
- Specification example: SD-3136-BP = SD-31 housing, size 3136, made of grey cast iron with 4 holes on the base, prepared for 23136-K bearing and H-3136 adapter sleeve, for locating bearing and passing shaft, with TS radial labyrinth seal.
- N-SD-3138-BC = SD-31 housing, size 3138, made of nodular cast iron with 4 holes on the base, prepared for 23138-K bearing and H-3138 adapter sleeve, for locating bearing and blind shaft, with TS radial labyrinth seal.
- The type of lubrication must be informed on the purchase order.



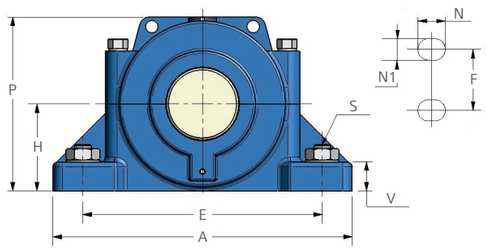
BP - Locating bearing, passing shaft

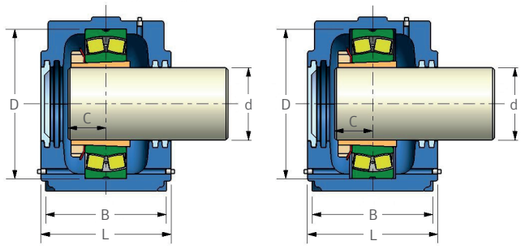


LP - Non-locating bearing, passing shaft

Housing	d		Bearing	Adapter sleeve (complete)	H	E	A	B	F	L	LI	P	N	NI	S	G	C	V	Ring dim.	FRB Qtt	Weight (kg)
	mm	inches																			
SD 3134	150	5.15/16″ 6″	23134 K	H 3134 HA 3134 HE 3134	170	430	510	180	100	240	230	335	34	28	1″	14	80	70	10 / 280	2	66
SD 3136	160	6.7/16″ 6.1 /2″	23136 K	H 3136 HA 3136 HE 3136	180	450	530	190	110	250	240	355	34	28	1″	15	86	75	10 / 300	2	76
SD 3138	170	6.3 /4″ 6.15/16″	23138 K	H 3138 HE 3138 HA 3138	190	480	560	210	120	270	260	375	34	28	1″	10	92	80	10 / 320	2	99
SD 3140	180	7″ 7.3/16″	23140 K	HE 3140 H 3140 HA 3140	210	510	610	230	130	290	280	410	42	35	1. 1/4″	10	96	85	10 / 340	2	125
SD 3144	200	7.1 /2″ 7.15/16″	23144 K	HE 3144 H 3144 HA 3144	220	540	640	240	140	300	290	435	42	35	1. 1/4″	12	102	90	10 / 370	2	138
SD 3148	220	8.7/16″ 8.1 /2″	23148 K	HA 3148 H 3148 HE 3148	240	600	700	260	150	320	310	475	42	35	1. 1/4″	12	106	95	10 / 400	2	186
SD 3152	240	9.7/16″ 9.1 /2″	23152 K	HA 3152 H 3152 HE 3152	260	650	770	280	160	330	320	515	50	42	1. 1/2″	13	118	100	10 / 440	2	210
SD 3156	260	9.15/16″ 10″	23156 K	HA 3156 HE 3156 H 3156	280	670	790	280	160	330	320	550	50	42	1. 1/2″	16	120	105	10 / 460	2	250
SD 3160	280	10.15/16″ 11″	23160 K	HA 3160 HE 3160 H 3160	300	710	830	310	190	360	350	590	50	42	1. 1/2″	22	134	110	10 / 500	2	310
SD 3164	300	11.7/16″ 11.1 /2″	23164 K	HA 3164 HE 3164 H 3164	320	750	880	330	200	380	370	630	50	42	1. 1/2″	23	144	115	10 / 540	2	336
SD 3168	320	12″ 12.7/16″	23168 K	HE 3168 HA 3168 H 3168	350	860	1065	360	253	415	405	703	70	54	2″	26	168	120	10 / 580	2	430

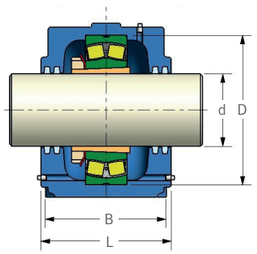
3.7 | SD 500-600



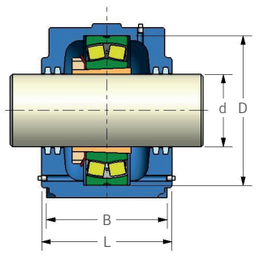


BC - Locating bearing, blind shaft

LC - Non-locating bearing, blind shaft



BP - Locating bearing, passing shaft



LP - Non-locating bearing, passing shaft

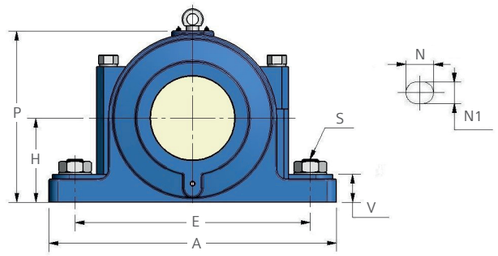
- See page 09 and 10 for technical features.
- Standard seal "FF" – pair of felt strips, see page 06.
- For applications with different bearing series please consult our Engineering Department. As a standard, these housings are manufactured for shafts in millimeters. Should it be manufactured for shafts in inches, please specify on your reference.
- Specification example: SD-3136-BP = SD-31 housing, size 3136, made of grey cast iron with 4 holes on the base, prepared for 23136-K bearing and H-3136 adapter sleeve, for locating bearing and passing shaft, with TS radial labyrinth seal.
- N-SD-3138-BC = SD-31 housing, size 3138, made of nodular cast iron with 4 holes on the base, prepared for 23138-K bearing and H-3138 adapter sleeve, for locating bearing and blind shaft, with TS radial labyrinth seal.
- The type of lubrication must be informed on the purchase order.

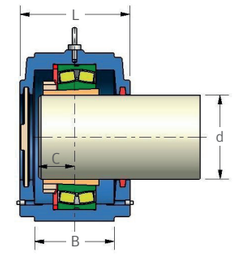
SD 500 Series

Housing	Shaft diameter						Bearing	H	E	A	B	C	D	F	L	N	NI	P	S	V	Peso (kg)
	mm	adapter sleeve	Inches	adapter sleeve	Inches	adapter sleeve															
SD 530	135	H3130	5.3/16"	HA3130	5.1/4"	HE3130	22230 K	160	450	550	220	74	270	120	240	45	33	320	1"	55	78
SD 532	140	H3132	5.7/16"	HA3132	5.1/2"	HE3132	22232 K	170	480	580	230	76	290	130	250	45	33	340	1"	55	89
SD 534	150	H3134	5.15/16"	HA3134	6"	HE3134	22234 K	180	510	620	250	79	310	140	270	50	36	360	1.1/8"	60	108
SD 536	160	H3136	6.7/16"	HA3136	6.1/2"	HE3136	22236 K	190	540	650	260	79	320	150	280	50	36	380	1.1/8"	60	122
SD 538	170	H3138	6.15/16"	HA3138	6.3/4"	HE3138	22238 K	200	570	700	280	86	340	160	290	55	40	400	1.1/4"	65	140
SD 540	180	H3140	7.3/16"	HA3140	7"	HE3140	22240 K	210	610	740	290	89	360	170	300	55	40	420	1.1/4"	65	192
SD 544	200	H3144	7.15/16"	HA3144	7.1/2"	HE3144	22244 K	240	680	820	320	95	400	190	330	62	42	475	1.3/8"	70	235
SD 548	220	H3148	8.7/16"	HA3148	8.1/2"	HE3148	22248 K	260	740	880	330	102	440	200	340	65	45	515	1.1/2"	85	274
SD 552	240	H3152	9.7/16"	HA3152	9.1/2"	HE3152	22252 K	280	790	940	360	110	480	210	370	65	45	555	1.1/2"	85	343
SD 556	260	H3156	9.15/16"	HA3156	10"	HE3156	22256 K	300	830	990	380	112	500	230	390	77	52	590	1.3/4"	100	428
SD 560	280	H3160	10.15/16"	HA3160	11"	HE3160	22260 K	325	890	1060	400	124	540	250	410	77	52	640	1.3/4"	100	508
SD 564	300	H3164	11.7/16"	HA3164	11.1/2"	HE3164	22264 K	355	930	1110	430	130	580	270	440	85	56	690	2"	110	641

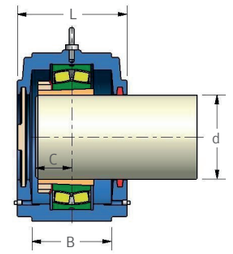
SD 600 Series

Housing	Shaft diameter						Bearing	H	E	A	B	C	D	F	L	N	NI	P	S	V	Peso (kg)
	mm	adapter sleeve	Inches	adapter sleeve	Inch-es	adapter sleeve															
SD 630	135	H2330	5.3/16"	HA2330	5.1/4"	HE2330	22330 K	190	540	650	260	85	320	150	280	50	36	380	1.1/8"	60	118
SD 632	140	H2332	5.7/16"	HA2332	5.1/2"	HE2332	22332 K	200	570	700	280	88	340	160	290	55	40	400	1.1/4"	65	136
SD 634	150	H2334	5.15/16"	HA2334	6"	HE2334	22334 K	210	610	740	290	92	360	170	300	55	40	420	1.1/4"	65	159
SD 636	160	H2336	6.7/16"	HA2336	6.1/2"	HE2336	22336 K	225	640	780	310	100	380	180	320	62	42	450	1.3/8"	70	194
SD 638	170	H2338	6.15/16"	HA2338	6.3/4"	HE2338	22338 K	240	680	820	320	105	400	190	330	62	42	475	1.3/8"	70	216
SD 640	180	H2340	7.3/16"	HA2340	7"	HE2340	22340 K	250	710	860	340	110	420	200	350	65	45	500	1.1/2"	85	256
SD 644	200	H2344	7.15/16"	HA2344	7.1/2"	HE2344	22344 K	280	770	920	350	115	460	210	360	65	45	550	1.1/2"	85	323
SD 648	220	H2348	8.7/16"	HA2348	8.1/2"	HE2348	22348 K	300	830	990	380	120	500	230	390	77	52	590	1.3/4"	100	404
SD 652	240	H2352	9.7/16"	HA2352	9.1/2"	HE2352	22352 K	325	890	1060	400	125	540	250	410	77	52	640	1.3/4"	100	480
SD 656	260	H2356	9.15/16"	HA2356	10"	HE2356	22356 K	355	930	1110	430	135	580	270	440	85	56	690	2"	110	605

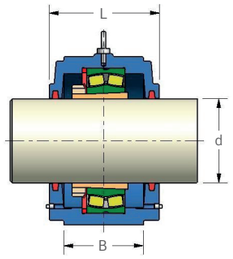




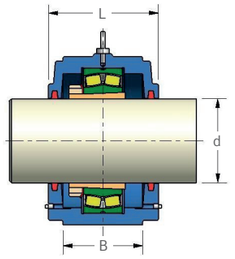
BC - Locating bearing, blind shaft



LC - Non-locating bearing, blind shaft



BP - Locating bearing, passing shaft



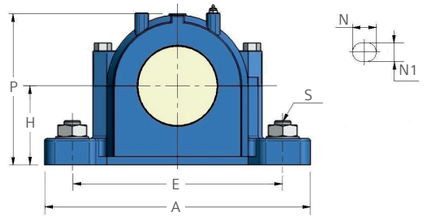
LP - Non-locating bearing, passing shaft

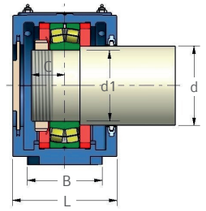
- See page 10 for technical features.
- Standard seal "TC" – felt strip, see page 04.
- For applications with different bearing series please consult our Engineering Department. As a standard, these housings are manufactured for shafts in millimeters. Should it be manufactured for shafts in inches, please specify on your reference.
- Specification example: SN-3024-BP = SN-30 housing, size 3024, made of grey cast iron, with 2 holes on the base, prepared for 23024-K bearing and H-3024 adapter sleeve, for locating bearing and passing shaft, with TC felt strip seal.
- N-SN-3036-LC = SN-30 housing, size 3036, made of nodular cast iron, with 2 holes on the base, prepared for 23036-K bearing and H-3036 adapter sleeve, for non-locating bearing and blind shaft, with TC felt strip seal.

Housing	d	Bearing	Adapter sleeve	H	E	A	B	C	L	N	NI	P	S	V	Ring dim	FRB Qtt	Weight (kg)
SN 3024	110	23024K	H 3024	112	320	380	110	48	150	36	28	215	24	40	10/180	1	20
SN 3026	115	23026K	H 3026	125	350	410	120	52	160	36	28	239	24	45	10/200	1	24
SN 3028	125	23028K	H 3028	140	350	410	120	54	170	36	28	260	24	45	10/210	1	30
SN 3030	135	23030K	H 3030	150	380	445	130	57	180	36	28	286	24	50	10/225	1	40
SN 3032	140	23032K	H 3032	150	390	460	130	61	190	36	28	297	24	50	10/240	1	41
SN 3034	150	23034K	H 3034	160	450	530	160	66	205	48	35	318	30	60	10/260	1	55
SN 3036	160	23036K	H 3036	170	470	550	160	70	210	48	35	338	30	60	10/280	1	62
SN 3038	170	23038K	H 3038	170	470	550	160	72	220	48	35	346	30	60	10/290	1	70
SN 3040	180	23040K	H 3040	180	515	610	170	77	235	48	35	366	30	60	10/310	1	80
SN 3044	200	23044K	H 3044	200	580	690	190	80	255	50	42	401	36	70	10/340	1	105
SN 3048	220	23048K	H 3048	210	610	720	200	85	265	50	42	422	36	75	10/360	1	125
SN 3052	240	23052K	H 3052	240	680	820	220	91	285	70	48	472	42	80	10/400	1	160
SN 3056	260	23056K	H 3056	250	720	860	230	96	295	70	48	495	42	80	10/420	1	180

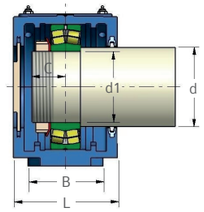
3.9 | SNAH 200

- See page 10 for technical features
- Standard seal "TC" – felt strip, see page 04. For seal types TA and TG, the dimensions are maintained. Should a different type of seal be requested, the dimensions of the columns "L", "N" and "M" on the table can be modified, but our engineering department should be consulted for more information.
- For applications with different bearing types and different shaft diameters please consult our Engineering Department.
- Specification example: SNAH-216-BP-TG, for 22216-C bearing = SNAH housing, size 216, made of grey cast iron with 2 holes on the base, prepared for 22216 C bearing, for locating bearing and passing shaft, with TG split nitrile or polyurethane rubber retainer with double lips seal.
- This bearing series can be supplied with solid base in nodular cast iron, with 2 or 4 holes on the base. These housings are identified by the prefix SSNAHD. Use suffix MS1 for two holes on the base and suffix MS2 for four holes on the base. Example: SSNAHD-216-LC-TG-MS2. Please consult our Engineering Department for dimensions and location of the holes.

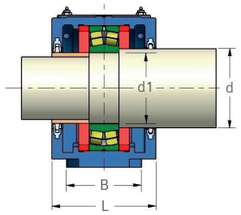




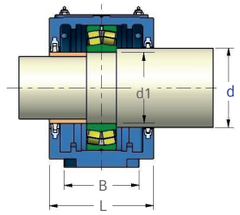
BC - Locating bearing, blind shaft



LC - Non-locating bearing, blind shaft

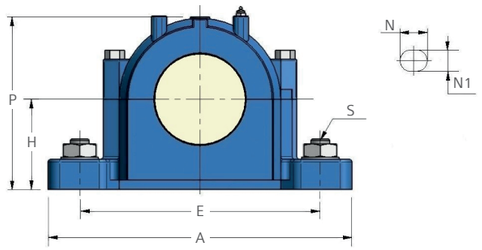


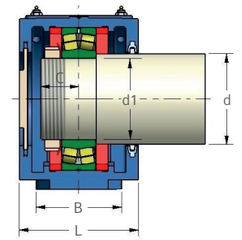
BP - Locating bearing, passing shaft



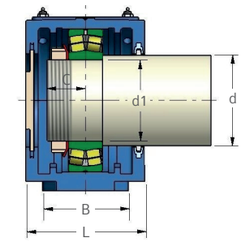
LP - Non-locating bearing, passing shaft

Housing	dI	d	Bearing	Washer	Nut	Dimensions (mm)											Ring Dim.	FRB Qtt.	Weight (kg)
						H	E	A	B	C	L	N	Nl	P	S	V			
SNAH 205	25	30	1205C 2205C 22205C	MB 5	KM 5	40	130	165	46	18	67	20	15	74	12	19	5/52 3,5/52 3,5/52	2 2 2	1,40
SNAH 206	30	35	1206C 2206C 22206C	MB 6	KM 6	50	150	185	52	19	77	20	15	89	12	22	8/62 6/62 6/62	2 2 2	1,90
SNAH 207	35	45	1207C 2207C 22207C	MB 7	KM 7	50	150	185	52	21	82	20	15	93	12	22	8,5/72 5,5/72 5,5/72	2 2 2	2,10
SNAH 208	40	50	1208C 2208C 22208C	MB 8	KM 8	60	170	205	60	22	85	20	15	107	12	25	10,5/80 8/80 8/80	2 2 2	2,75
SNAH 209	45	55	1209C 2209C	MB 9	KM 9	60	170	205	60	23	85	20	15	109	12	25	5,5/85 3,5/85	2 2	3
SNAH 210	50	60	1210C 2210C 22210C	MB 10	KM 10	60	170	205	60	24	90	20	15	113	12	25	10,5/90 9/90 9/90	2 2 2	3
SNAH 211	55	65	1211C 2211C 22211C	MB 11	KM 11	70	210	255	70	26	95	24	18	127	16	28	11,5/100 9,5/100 9,5/100	2 2 2	4,20
SNAH 212	60	70	1212C 2212C 22212C	MB 12	KM 12	70	210	255	70	28	105	24	18	133	16	30	13/110 10/110 10/110	2 2 2	4,75
SNAH 213	65	75	1213C 2213C 22213C	MB 13	KM 13	80	230	275	80	31	110	24	18	148	16	30	14/120 10/120 10/120	2 2 2	6,10
SNAH 215	75	85	1215C 2215C 22215C	MB 15	KM 15	80	230	280	80	32	115	24	18	154	16	30	15,5/130 12,5/130 12,5/130	2 2 2	6,60
SNAH 216	80	90	1216C 2216C 22216C	MB 16	KM 16	95	260	315	90	35	120	28	22	175	20	32	16/140 12,5/140 12,5/140	2 2 2	9
SNAH 217	85	95	1217C 2217C 22217C	MB 17	KM 17	95	260	320	90	37	125	28	22	183	20	32	16,5/150 12,5/150 12,5/150	2 2 2	9,50
SNAH 218	90	100	1218C 2218C 22218C 23218C	MB 18	KM 18	100	290	345	100	46	140	28	22	193	20	35	17,5/160 12,5/160 12,5/160 6,25/160	2 2 2 2	11,80
SNAH 219	95	110	1219C 2219C 22219C	MB 19	KM 19	112	290	345	100	42	145	28	22	210	20	35	18/170 12,5/170 12,5/170	2 2 2	13,70
SNAH 220	100	115	1220C 2220C 22220C 23220C	MB 20	KM 20	112	320	380	110	50	160	32	26	215	24	40	18/180 12/180 12/180 4,85/180	2 2 2 2	17,60
SNAH 222	110	125	1222C 2222C 22222C 23222C	MB 22	KM 22	125	350	410	120	58	175	32	26	239	24	45	21/200 13,5/200 13,5/200 5,1/200	2 2 2 2	22
SNAH 224	120	135	1224C 22224C 23224C	MB 24	KM 24	140	350	410	120	62	185	32	26	271	24	45	22/215 14/215 5/215	2 2 2	26
SNAH 226	130	145	22226C 23226C	MB 26	KM 26	150	380	445	130	65	190	35	28	290	24	50	13/230 5/230	2 2	33
SNAH 228	140	155	22228C 23228C	MB 28	KM 28	150	420	500	150	70	205	42	35	302	30	50	15/250 5/250	2 2	40
SNAH 230	150	165	22230C 23230C	MB 30	KM 30	160	450	530	160	76	220	42	35	323	30	60	16,5/270 5/270	2 2	49
SNAH 232	160	175	22232C 23232C	MB 32	KM 32	170	470	550	160	82	235	42	35	344	30	60	17/290 5/290	2 2	55

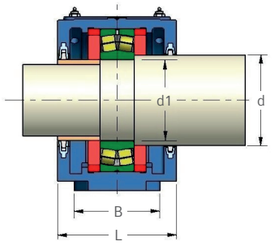




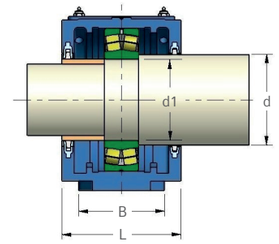
BC - Locating bearing, blind shaft



LC - Non-locating bearing, blind shaft



BP - Locating bearing, passing shaft



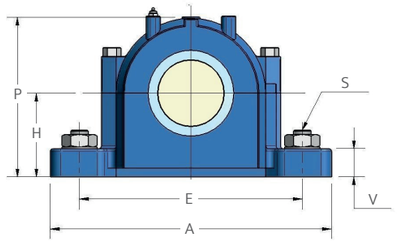
LP - Non-locating bearing, passing shaft

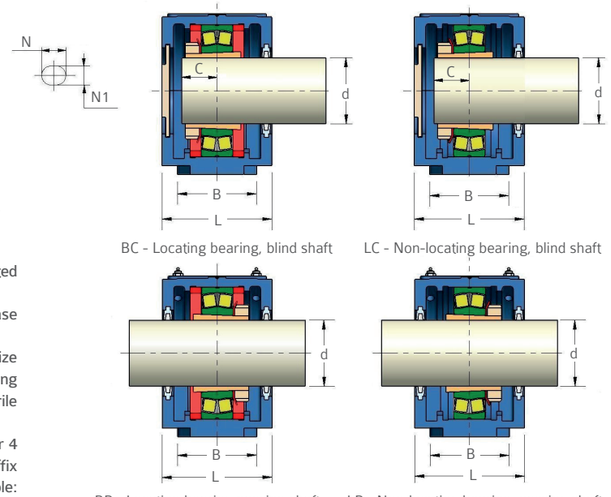
- See page 10 for technical features
- Standard seal "TC" – felt strip, see page 04. For seal types TA and TG, the dimensions are maintained. Should a different type of seal be requested, the dimensions of the columns "L", "N" and "M" on the table can be modified, but our engineering department should be consulted for more information.
- For applications with different bearing types and different shaft diameters please consult our Engineering Department.
- Specification example: SNAH-316-BP-TG, for 21316-C bearing = SNAH housing, size 316, made of grey cast iron with 2 holes on the base, prepared for 21316-C bearing, for locating bearing and passing shaft, with TG split nitrile or polyurethane rubber retainer with double lips seal.
- This bearing series can be supplied with solid base in nodular cast iron, with 2 or 4 holes on the base. These housings are identified by the prefix SSNAHD. Use suffix MS1 for two holes on the base and suffix MS2 for four holes on the base. Example: SSNAHD-316-LC-TG-MS2. Please consult our Engineering Department for dimensions and location of the holes.

Housing	dI	d	Bearing	Washer	Nut	Dimensions (mm)											Ring Dim.	FRB Qtt.	Weight (kg)
						H	E	A	B	C	L	N	Nl	P	S	V			
SNAH 305	25	30	1305 C 2305 C	MB 5	KM 5	50	150	185	52	22	77	20	15	89	12	22	7,5/62 4/62	2 2	1,90
SNAH 306	30	35	1306 C 2306 C	MB 6	KM 6	50	150	185	52	22	82	20	15	93	12	22	7,5/72 3,5/72	2 2	2,20
SNAH 307	35	45	1307 C 2307 C	MB 7	KM 7	60	170	205	60	25	85	20	15	107	12	25	9/80 4/80	2 2	2,90
SNAH 308	40	50	1308 C 2308 C 21308 C 22308 C	MB 8	KM 8	60	170	205	60	27	90	20	15	113	12	25	9/90 4/90 9/90 4/90	2 2 2 2	3,20
SNAH 309	45	55	1309 C 2309 C 21309 C 22309 C	MB 9	KM 9	70	210	255	70	30	95	24	18	127	16	28	9,5/100 4/100 9,5/100 4/100	2 2 2 2	4,40
SNAH 310	50	60	1310 C 2310 C 21310 C 22310 C	MB 10	KM 10	70	210	255	70	33	105	24	18	133	16	30	10,5/110 4/110 10,5/110 4/110	2 2 2 2	5,10
SNAH 311	55	65	1311 C 2311 C 21311 C 22311 C	MB 11	KM 11	80	230	275	80	35	110	24	18	148	16	30	11/120 4/120 11/120 4/120	2 2 2 2	6,50
SNAH 312	60	70	1312 C 2312 C 21312 C 22312 C	MB 12	KM 12	80	230	280	80	37	115	24	18	154	16	30	12,5/130 5/130 12,5/130 5/130	2 2 2 2	7
SNAH 313	65	75	1313 C 2313 C 21313 C 22313 C	MB 13	KM 13	95	260	315	90	39	120	28	22	175	20	32	12,5/140 5/140 12,5/140 5/140	2 2 2 2	9,50
SNAH 314	70	80	1314 C 2314 C 21314 C 22314 C	MB 14	KM 14	95	260	320	90	41	125	28	22	183	20	32	13/150 5/150 13/150 5/150	2 2 2 2	10
SNAH 315	75	85	1315 C 2315 C 21315 C 22315 C	MB 15	KM 15	100	290	345	100	43	140	28	22	193	20	35	14/160 5/160 14/160 5/160	2 2 2 2	12,50
SNAH 316	80	90	1316 C 2316 C 21316 C 22316 C	MB 16	KM 16	112	290	345	100	47	145	28	22	210	20	35	14,5/170 5/170 14,5/170 5/170	2 2 2 2	13,70
SNAH 317	85	95	1317 C 2317 C 21317 C 22317 C	MB 17	KM 17	112	320	380	110	49	160	32	26	215	24	40	14,5/180 5/180 14,5/180 5/180	2 2 2 2	17,60
SNAH 319	95	110	1319 C 2319 C 21319 C 22319 C	MB 19	KM 19	125	350	410	120	54	175	32	26	239	24	45	17,5/200 6,5/200 17,5/200 6,5/200	2 2 2 2	22
SNAH 320	100	115	1320 C 2320 C 21320 C 22320 C	MB 20	KM 20	140	350	410	120	58	185	32	26	271	24	45	19,5/215 6,5/215 19,5/215 6,5/215	2 2 2 2	26

3.11 | SNAH 500

- See page 11 for technical features
- Standard seal "TC" – felt strip, see page 04. For seal types TA and TG, the dimensions are maintained. Should a different type of seal be requested, the dimensions of the columns "L", "N" and "M" on the table can be modified, but our engineering department should be consulted for more information.
- For applications with different bearing types and different shaft diameters please consult our Engineering Department.
- Specification example: SNAH-516-BP-TG, for 22216-K bearing = SNAH housing, size 516, made of grey cast iron with 2 holes on the base, prepared for 22216-K bearing and H-316 adapter sleeve, for locating bearing and passing shaft, with TG split nitrile or polyurethane rubber retainer with double lips seal.
- This bearing series can be supplied with solid base in nodular cast iron, with 2 or 4 holes on the base. These housings are identified by the prefix SSNAHD. Use suffix MS1 for two holes on the base and suffix MS2 for four holes on the base. Example: SSNAHD-516-LC-TG-MS2. Please consult our Engineering Department for dimensions and location of the holes.





BC - Locating bearing, blind shaft

LC - Non-locating bearing, blind shaft

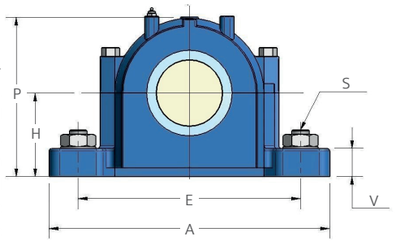
BP - Locating bearing,passing shaft

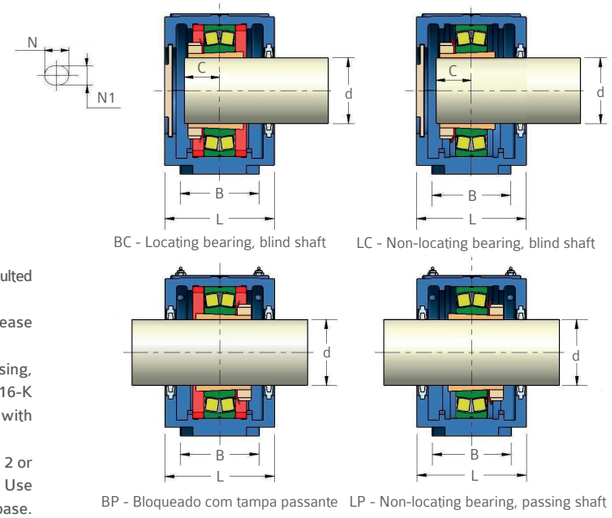
LP - Non-locating bearing, passing shaft

Housing	d	Bearing	Adapter sleeve	Dimensions (mm)											Ring Dim.	FRB Qtd	Weight (kg)
				H	E	A	B	C	L	N	N1	P	S	V			
SNAH 505	20	1205K 2205K 22205K	H 205 H 305 H 305	40	130	165	46	18	67	20	15	74	12	19	5/52 3,5/52 3,5/52	2 2 2	1,5
SNAH 506	25	1206K 2206K 22206K	H 206 H 306 H 306	50	150	185	52	19	77	20	15	89	12	22	8/62 6/62 6/62	2 2 2	2
SNAH 507	30	1207K 2207K 22207K	H 207 H 307 H 307	50	150	185	52	21	82	20	15	93	12	22	8,5/72 5,5/72	2 2	2,2
SNAH 508	35	1208K 2208K 22208K	H 208 H 308 H 308	60	170	205	60	22	85	20	15	107	12	25	10,5/80 8/80 8/80	2 2 2	2,9
SNAH 509	40	1209K 2209K 22209K	H 209 H 309 H 309	60	170	205	60	23	85	20	15	109	12	25	5,5/85 3,5/85 3,5/85	2 2 2	2,9
SNAH 510	45	1210K 2210K 22210K	H 210 H 310 H 310	60	170	205	60	24	90	20	15	113	12	25	10,5/90 9/90 9/90	2 2 2	3,2
SNAH 511	50	1211K 2211K 22211K	H 211 H 311 H 311	70	210	255	70	26	95	24	18	127	16	28	11,5/100 9,5/100 9,5/100	2 2 2	4,4
SNAH 512	55	1212K 2212K 22212K	H 212 H 312 H 312	70	210	255	70	28	105	24	18	133	16	30	13/110 10/110 10/110	2 2 2	5,1
SNAH 513	60	1213K 2213K 22213K	H 213 H 313 H 313	80	230	275	80	31	110	24	18	148	16	30	14/120 10/120 10/120	2 2 2	6,5
SNAH 515	65	1215K 2215K 22215K	H 215 H 315 H 315	80	230	280	80	32	115	24	18	154	16	30	15,5/130 12,5/130 12,5/130	2 2 2	7
SNAH 516	70	1216K 2216K 22216K	H 216 H 316 H 316	95	260	315	90	35	120	28	22	175	20	32	16/140 12,5/140 12,5/140	2 2 2	9,5
SNAH 517	75	1217K 2217K 22217K	H 217 H 317 H 317	95	260	320	90	37	125	28	22	183	20	32	16,5/150 12,5/150 12,5/150	2 2 2	10
SNAH 518	80	1218K 2218K 22218K 23218K	H 218 H 318 H 318 H 2318	100	290	345	100	46	140	28	22	193	20	35	17,5/160 12,5/160 12,5/160 6,25/160	2 2 2 2	12,5
SNAH 519	85	1219K 2219K 22219K	H 219 H 319 H 319	112	290	345	100	42	145	28	22	210	20	35	18/170 12,5/170 12,5/170	2 2 2	13,7
SNAH 520	90	1220K 2220K 22220K 23220K	H 220 H 320 H 320 H 2320	112	320	380	110	50	160	32	26	215	24	40	18/180 12/180 12/180 4,85/180	2 2 2 2	17,6
SNAH 522	100	1222K 2222K 22222K 23222K	H 222 H 322 H 322 H 2322	125	350	410	120	58	175	32	26	239	24	45	21/200 13,5/200 13,5/200 5,1/200	2 2 2 2	22
SNAH 524	110	1224K 22224K 23224K	H 3124 H 3124 H 2324	140	350	410	120	62	185	32	26	271	24	45	22/215 14/215 5/215	2 2 2	26
SNAH 526	115	22226K 23226K	H 3126 H 2326	150	380	445	130	65	190	35	28	290	24	50	13/230 5/230	2 2	33
SNAH 528	125	22228K 23228K	H 3128 H 2328	150	420	500	150	70	205	42	35	302	30	50	15/250 5/250	2 2	40
SNAH 530	135	22230K 23230K	H 3130 H 2330	160	450	530	160	76	220	42	35	323	30	60	16,5/270 5/270	2 2	49
SNAH 532	140	22232K 23232K	H 3132 H 2332	170	470	550	160	82	235	42	35	344	30	60	17/290 5/290	2 2	55

3.12 | SNAH 600

- See page 11 for technical features
- Standard seal "TC" – felt strip, see page 04. For seal types TA and TG, the dimensions are maintained. Should a different type of seal be requested, the dimensions of the columns "L", "N" and "M" on the table can be modified, but our engineering department should be consulted for more information.
- For applications with different bearing types and different shaft diameters please consult our Engineering Department.
- Specification example: SNAH-616-BP-TG, for 21316-K bearing = SNAH housing, size 316, made of grey cast iron with 2 holes on the base, prepared for 21316-K bearing and H-316 adapter sleeve, for locating bearing and passing shaft, with TG split nitrile or polyurethane rubber retainer with double lips seal.
- This bearing series can be supplied with solid base in nodular cast iron, with 2 or 4 holes on the base. These housings are identified by the prefix SSNAHD. Use suffix MS1 for two holes on the base and suffix MS2 for four holes on the base. Example: SSNAHD-616-LC-TG-MS2. Please consult our Engineering Department for dimensions and location of the holes





BC - Locating bearing, blind shaft

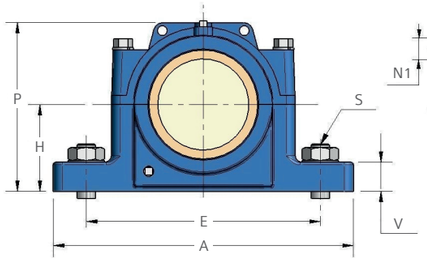
LC - Non-locating bearing, blind shaft

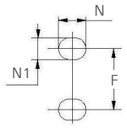
BP - Bloqueado com tampa passante

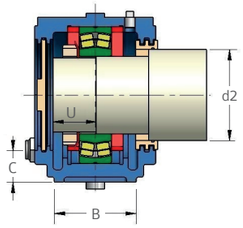
LP - Non-locating bearing, passing shaft

Housing	d	Bearing	Adapter sleeve	Dimensions (mm)											Ring Dim.	FRB Qtd	Weight (kg)
				H	E	A	B	C	L	N	N1	P	S	V			
SNAH 605	20	1305K 2305K	H 305 H 2305	50	150	185	52	22	77	20	15	89	12	22	7,5/62 4/62	2 2	2
SNAH 606	25	1306K 2306K	H 306 H 2306	50	150	185	52	22	82	20	15	93	12	22	7,5/72 3,5/72	2 2	2,2
SNAH 607	30	1307K 2307K	H 307 H 2307	60	170	205	60	25	85	20	15	107	12	25	9/80 4/80	2 2	2,9
SNAH 608	35	1308K 2308K 21308K 22308K	H 308 H 2308 H 308 H 2308	60	170	205	60	27	90	20	15	113	12	25	9/90 4/90 9/90 4/90	2 2 2 2	3,2
SNAH 609	40	1309K 2309K 21309K 22309K	H 309 H 2309 H 309 H 2309	70	210	255	70	30	95	24	18	127	16	28	9,5/100 4/100 9,5/100 4/100	2 2 2 2	4,4
SNAH 610	45	1310K 2310K 21310K 22310K	H 310 H 2310 H 310 H 2310	70	210	255	70	33	105	24	18	133	16	30	10,5/110 4/110 10,5/110 4/110	2 2 2 2	5,1
SNAH 611	50	1311K 2311K 21311K 22311K	H 311 H 2311 H 311 H 2311	80	230	275	80	35	110	24	18	148	16	30	11/120 4/120 11/120 4/120	2 2 2 2	6,5
SNAH 612	55	1312K 2312K 21312K 22312K	H 312 H 2312 H 312 H 2312	80	230	280	80	37	115	24	18	154	16	30	12,5/130 5/130 12,5/130 5/130	2 2 2 2	7
SNAH 613	60	1313K 2313K 21313K 22313K	H 313 H 2313 H 313 H 2313	95	260	315	90	39	120	28	22	175	20	32	12,5/140 5/140 12,5/140 5/140	2 2 2 2	9,5
SNAH 615	65	1315K 2315K 21315K 22315K	H 315 H 2315 H 315 H 2315	100	290	345	100	43	140	28	22	193	20	35	14/160 5/160 14/160 5/160	2 2 2 2	12,5
SNAH 616	70	1316K 2316K 21316K 22316K	H 316 H 2316 H 316 H 2316	112	290	345	100	47	145	28	22	210	20	35	14,5/170 5/170 14,5/170 5/170	2 2 2 2	13,7
SNAH 617	75	1317K 2317K 21317K 22317K	H 317 H 2317 H 317 H 2317	112	320	380	110	49	160	32	26	215	24	40	14,5/180 5/180 14,5/180 5/180	2 2 2 2	17,6
SNAH 619	85	1319K 2319K 21319K 22319K	H 319 H 2319 H 319 H 2319	125	350	410	120	54	175	32	26	239	24	45	17,5/200 6,5/200 17,5/200 6,5/200	2 2 2 2	22
SNAH 620	90	1320K 2320K 21320K 22320K	H 320 H 2320 H 320 H 2320	140	350	410	120	58	185	32	26	271	24	45	19,5/215 6,5/215 19,5/215 6,5/215	2 2 2 2	26

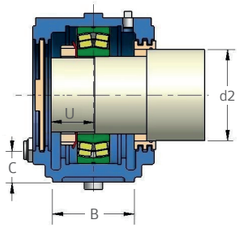
3.13 | SAF 200-300



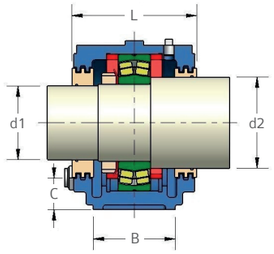




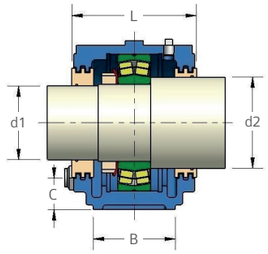
BC - Locating bearing, blind shaft



LC - Non-locating bearing, blind shaft



BP - Locating bearing, passing shaft



LP - Non-locating bearing, passing shaft

- See pages 11 for technical features. Standard seal "TS" – radial labyrinth, see page 05.
- Should a different type of seal be requested, the dimensions of the column "L" on the table can be modified, but our engineering department should be consulted for more information.
- For applications with other bearing series please consult our Engineering Department.
- Specification example: SAF-313-BP-TS = SAF housing, size 313, made of grey cast iron, with 2 holes on the base, prepared for 22313-C bearing, for locating bearing and passing shaft, with labyrinth seal type TS.
- Up to size SAF 220 / 317 these housings can be supplied with 4 holes on the base, by simply adding the prefix "F" to the housing designation (Ex. FSAF-220-BP-TS). As of the size 220/317 the housings will be supplied exclusively with 4 holes on the base. The dimensions of the set bolts for two holes on the base are found on column "S", between brackets. When not specified, the housings up to and including SAF 317/220 will be supplied with 2 holes on the base.

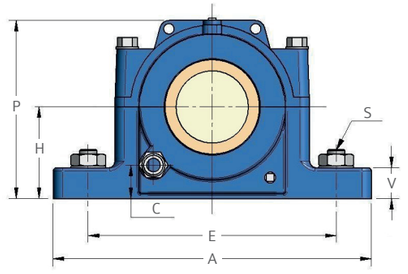
SAF 200 Series

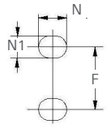
Housing	dI	d2	Nut	Washer	Bearing	H	E	A	B	C	F	L	N	NI	P	S	U	V	Ring dim.	FRB Qtt.	Weight (kg)
SAF 216	3"	3.5/8"	KM 16	MB 16	22216C	88,9	262	330	89	36	54	137	32	22	177	5/8" (3/4")	42	32	12,5/140	2	12
SAF 217	3.3/16"	3.15/16"	KM 17	MB 17	22217C	95,25	265	330	89	37	54	137	32	22	188	5/8" (3/4")	44	32	12,5/150	2	14
SAF 218	3.3/8"	4.1/8"	KM 18	MB 18	22218C	101,6	279,5	350	99	40	54	159	32	22	199	5/8" (3/4")	46	34	12,5/160	2	17
SAF 220	3.13/16"	4.1/2"	KM 20	MB 20	22220C	114,3	314	388	112	44	60	162	38	22	222	5/8" (3/4")	54	45	12/180	2	24
SAF 222	4.3/16"	4.7/8"	KM 22	MB 22	22222C	125,41	344,5	420	121	45	70	165	38	22	245	3/4"	58	51	10/200	1	26
SAF 224	4.9/16"	5.5/16"	KM 24	MB 24	22224C	133,35	352,5	420	121	50	70	188	38	22	261	3/4"	60	54	12,5/215	2	35
SAF 226	4.15/16"	5.7/8"	KM 26	MB 26	22226C	152,4	390	467	130	60	83	203	41	26	292	7/8"	64	60	13/230	2	49
SAF 228	5.5/16"	6.1/4"	KM 28	MB 28	22228C	152,4	421	512	150	52	86	194	44	28	299	1"	68	60	10/250	1	60
SAF 230	5.3/4"	6.5/8"	KM 30	MB 30	22230C	160,34	447,5	540	159	52	95	222	44	28	318	1"	74	64	11,5/270	2	73
SAF 232	6.1/16"	7"	KM 32	MB 32	22232C	169,86	465	559	159	52	95	222	50	28	338	1"	76	67	11,5/290	2	86
SAF 234	6.7/16"	7.7/16"	KM 34	MB 34	22234C	179,39	521	629	172	55	108	245	57	28	360	1"	79	70	13/310	2	93
SAF 236	6.7/8"	7.13/16"	KM 36	MB 36	22236C	190,5	565	680	181	67	118	254	65	28	378	1"	85	77	16/320	2	126
SAF 238	7.1/4"	8.3/8"	KM 38	MB 38	22238C	200,03	584	712	191	68	114	273	70	35	399	1.1/4"	88	80	16/340	2	146
SAF 240	7.5/8"	8.3/4"	KM 40	MB 40	22240C	209,55	603,5	750	203	70	127	286	70	35	420	1.1/4"	92	86	16/360	2	193
SAF 244	8.5/16"	9.9/16"	KM 44	MB 44	22244C	241,3	668,5	832	223	86	133	305	80	42	473	1.1/2"	98	96	17/400	2	225

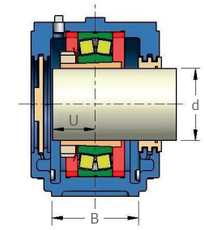
SAF 300 Series

Housing	dI	d2	Nut	Washer	Bearing	H	E	A	B	C	F	L	N	NI	P	S	U	V	Ring dim.	FRB Qtt.	Weight (kg)
SAF 308	1.7/16"	1.15/16"	KM 08	MB 08	22308C	63,5	171,5	210	60	30	—	95	20	15	122	(1/2")	30	25	10/90	1	5,2
SAF 309	1.11/16"	2.1/8"	KM 09	MB 09	22309C	69,85	193,5	245	70	33	—	101	25	18	135	(5/8")	32	25	10,5/100	1	6
SAF 310	1.7/8"	2.3/8"	KM 10	MB 10	22310C	76,2	212,5	270	70	35	—	115	25	18	148	(5/8")	35	29	11,5/110	1	6,1
SAF 311	2.1/16"	2.9/16"	KM 11	MB 11	22311C	82,55	223,5	280	80	37	51	121	25	18	157	1/2"(5/8")	37	31	12/120	1	7,5
SAF 312	2.1/4"	2.7/8"	KM 12	MB 12	22312C	82,55	232	286	80	33	48	128	25	18	162	1/2"(5/8")	39	31	10/130	1	10,5
SAF 313	2.7/16"	3.1/16"	KM 13	MB 13	22313C	88,9	262	330	89	36	54	137	32	22	177	5/8"(3/4")	42	32	10/140	1	12
SAF 314	2.5/8"	3.1/4"	KM 14	MB 14	22314C	95,25	265	330	89	37	54	137	32	22	188	5/8"(3/4")	44	32	10/150	1	14
SAF 315	2.13/16"	3.7/16"	KM 15	MB 15	22315C	101,6	279,5	350	99	40	54	159	32	22	199	5/8"(3/4")	46	34	10/160	1	17
SAF 316	3"	3.5/8"	KM 16	MB 16	22316C	107,95	295	362	99	43	54	159	34	22	210	5/8"(3/4")	50	34	10/170	1	18,5
SAF 317	3.3/16"	3.15/16"	KM 17	MB 17	22317C	114,3	314	388	112	44	60	162	38	22	223	5/8"(3/4")	54	45	10/180	1	24
SAF 318	3.3/8"	4.1/8"	KM 18	MB 18	22318C	120,65	324	394	112	48	57	175	38	22	234	3/4"	54	51	10/190	1	30
SAF 320	3.13/16"	4.1/2"	KM 20	MB 20	22320C	133,35	352,4	420	121	50	70	188	38	22	261	3/4"	60	54	10/215	1	35
SAF 322	4.3/16"	4.7/8"	KM 22	MB 22	22322C	152,4	390	467	130	61	83	203	41	26	292	7/8"	65	61	10/240	1	46
SAF 324	4.9/16"	5.5/16"	KM 24	MB 24	22324C	160,34	447,5	540	159	60	95	222	44	28	318	1"	69	64	10/260	1	62
SAF 326	4.15/16"	5.7/8"	KM 26	MB 26	22326C	169,86	465,5	559	159	62	95	222	50	28	338	1"	74	67	10/280	1	73
SAF 328	5.5/16"	6.1/4"	KM 28	MB 28	22328C	179,39	521	629	172	65	108	245	57	28	360	1"	79	70	10/300	1	95
SAF 330	5.3/4"	6.5/8"	KM 30	MB 30	22330C	190,5	565	680	181	67	118	254	65	28	378	1"	85	77	10/320	1	126
SAF 332	6.1/16"	7"	KM 32	MB 32	22332C	200,03	584	712	191	68	114	273	70	35	399	1.1/4"	88	80	10/340	1	146
SAF 334	6.7/16"	7.7/16"	KM 34	MB 34	22334C	209,55	603,5	750	203	70	127	286	70	35	420	1.1/4"	92	86	10/360	1	193
SAF 338	7.1/4"	8.3/8"	KM 38	MB 38	22338C	241,3	668,5	832	223	86	133	305	80	42	473	1.1/2"	98	96	10/400	1	225

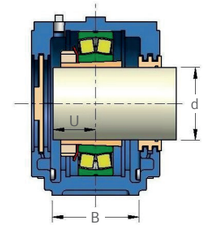
3.14 | SAF 500



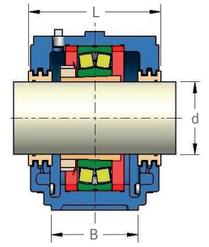




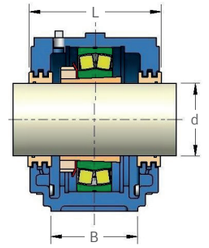
BC - Locating bearing, blind shaft



LC - LNon-locating bearing, blind shaft



BP - Locating bearing, passing shaft

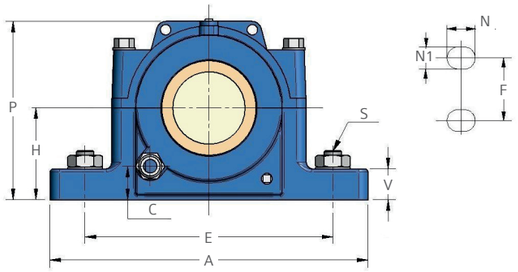


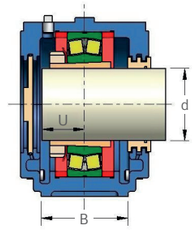
LP - Non-locating bearing, passing shaft

- See page 12 for technical features. Standard seal "TS" – radial labyrinth, see page 05.
- Should a different type of seal be requested, the dimensions of the column "L" on the table can be modified, but our engineering department should be consulted for more information.
- For applications with other bearing series or other shaft diameters, please consult our Engineering Department.
- Specification example: SAF-516-BP-TS = SAF housing, size 516, made of grey cast iron with 2 holes on the base, prepared for 22216-K bearing and HA 316 adapter sleeve, for locating bearing and passing shaft , with labyrinth seal type TS.
- Up to size SAF 520 these housings can be supplied with 4 holes on the base, by simply adding the prefix "F" to the housing designation (Ex. FSAF-520-BP-TS). As of the size 520 the housings will be supplied exclusively with 4 holes on the base. The dimensions of the set bolts for two holes on the base are found on column "S", between brackets. When not specified, the housings up to and including SAF 520 will be supplied with 2 holes on the base.

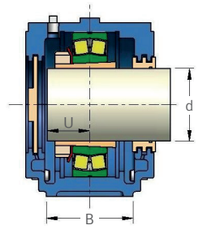
Housing	d	Bearing	Adapter sleeve (complete)	H	E	A	B	C	F	L	N	NI	P	S	U	V	Ring dim.	FRB Qtd.	Weight (kg)
SAF 509	1.7/16" 1.1/2" 40 mm	22209 K	HA 309 HE 309 H 309	57,15	168,5	210	60	25	—	92	20	14	111	(1/2")	28	21	8/85	1	4,8
SAF 510	1.11/16" 1.3/4" 45 mm	22210 K	HA 310 HE 310 H 310	63,5	171,5	210	60	30	—	95	20	15	122	(1/2")	25	25	10/90	2	5,2
SAF 511	1.15/16" 50 mm 2"	22211 K	HA 311 HE 311 H 311	69,85	193,5	245	70	35	—	101	25	18	135	(5/8")	32	25	10,5/100	2	6
SAF 513	2.3/16" 2.1/4" 60 mm	22213 K	HA 313 HE 313 H 313	76,2	223,5	279	80	28	51	114	25	18	151	1/2" (5/8")	36	25	11/120	2	8
SAF 515	2.7/16" 2.1/2" 65 mm	22215 K	HA 315 HE 315 H 315	82,55	232	286	80	33	48	128	25	18	162	1/2" (5/8")	39	31	12,5/130	2	10,5
SAF 516	2.11/16" 2.3/4" 70 mm	22216 K	HA 316 HE 316 H 316	88,9	262	330	89	32	54	137	32	22	177	5/8" (3/4")	42	32	12,5/140	2	12
SAF 517	2.15/16" 75 3"	22217 K	HA 317 H 317 HE 317	95,25	265,5	330	89	37	54	137	32	22	188	5/8" (3/4")	44	32	12,5/150	2	14
SAF 518	80 mm 3.3/16" 3.1/4"	22218 K	H 318 HA 318 HE 318	101,6	279,5	350	99	40	54	159	32	22	199	5/8" (3/4")	46	41	12,5/160	2	17
SAF 520	3.7/16" 3.1/2" 90 mm	22220 K	HA 320 HE 320 H 320	114,3	314	388	116	44	60	162	38	22	222	5/8" (3/4")	54	45	12/180	2	24
SAF 522	3.11/16" 100 mm 3.15/16" 4"	22222 K	HS 322 H 322 HA 322 HE 322	125,41	344,5	420	121	45	70	165	38	22	245	3/4"	58	51	10/200	1	26
SAF 524	4.3/16" 4.1/4" 110 mm	22224 K	HA 3124 HE 3124 H 3124	133,35	352,5	420	121	50	70	188	38	22	261	3/4"	60	54	12,5/215	2	35
SAF 526	4.7/16" 4.1/2" 115 mm	22226 K	HA 3126 HE 3126 H 3126	152,4	390	467	130	60	83	203	41	26	292	7/8"	64	60	13/230	2	49
SAF 528	125 mm 4.15/16" 5"	22228 K	H 3128 HA 3128 HE 3128	152,4	421	512	150	52	86	194	44	28	299	1"	68	60	10/250	1	60
SAF 530	5.3/16" 5.1/4" 135 mm	22230 K	HA 3130 HE 3130 H 3130	160,34	447,5	540	159	52	95	222	44	28	318	1"	74	64	11,5/270	2	73
SAF 532	5.7/16" 5.1/2" 140 mm	22232 K	HA 3132 HE 3132 H 3132	169,86	465	559	159	52	95	222	50	28	338	1"	76	67	11,5/290	2	86
SAF 534	150 mm 5.15/16" 6"	22234 K	H 3134 HA 3134 HE 3134	179,39	521	629	172	55	108	245	57	28	360	1"	79	70	13/310	2	93
SAF 536	160 mm 6.7/16" 6.1/2"	22236 K	H 3136 HA 3136 HE 3136	190,5	565	680	181	67	118	254	65	28	378	1"	85	77	16/320	2	126
SAF 538	170 mm 6.3/4" 6.15/16"	22238 K	H 3138 HE 3138 HA 3138	200,03	584	712	191	68	114	273	70	35	399	1.1/4"	88	80	16/340	2	146
SAF 540	7" 180 mm 7.3/16"	22240 K	HE 3140 H 3140 HA 3140	209,55	603,5	750	203	70	127	286	70	35	420	1.1/4"	92	86	16/360	2	193
SAF 544	7.1/2" 200 mm 7.15/16"	22244 K	HE 3144 H 3144 HA 3144	241,3	668,5	832	223	86	133	305	80	42	473	1.1/2"	98	96	17/400	2	225

3.15 | SAF 600



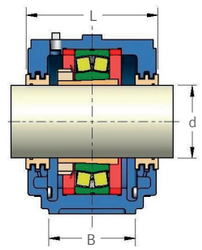


BC - Locating bearing, blind shaft

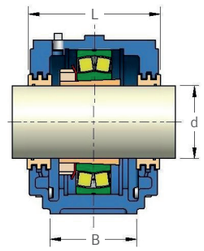


LC - Non-locating bearing, blind shaft

- See page 12 for technical features. Standard seal "TS" – radial labyrinth, see page 05.
- Should a different type of seal be requested, the dimensions of the column "L" on the table can be modified, but our engineering department should be consulted for more information.
- For applications with other bearing series or other shaft diameters, please consult our Engineering Department.
- Specification example: SAF-616-Ø2.11/16"-BP-TS = SAF housing, size 616, made of grey cast iron with 2 holes on the base, prepared for 22316-K bearing and HA-2316 adapter sleeve, for locating bearing and passing shaft, with labyrinth seal type TS.
- Up to size SAF 617 these housings can be supplied with 4 holes on the base, by simply adding the prefix "F" to the housing designation (Ex. FSAF-617-BP-TS). As of the size 617 the housings will be supplied exclusively with 4 holes on the base. The dimensions of the set bolts for two holes on the base are found on column "S", between brackets. When not specified, the housings up to and including SAF 617 will be supplied with 2 holes on the base.

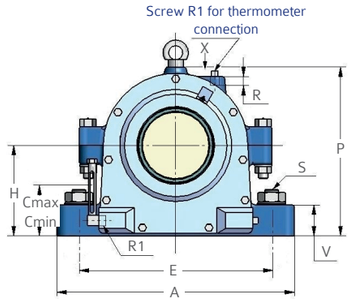


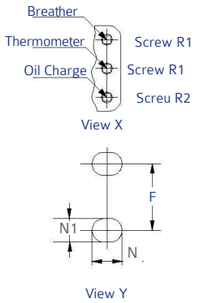
BP - Locating bearing, passing shaft

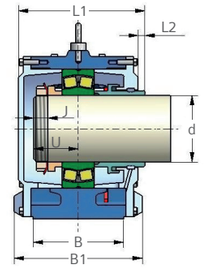


LP - Non-locating bearing, passing shaft

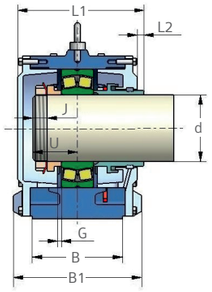
Housing	d	Bearing	Adapter sleeve (complete)	H	E	A	B	C	F	L	N	N1	P	S	U	V	Ring dim.	FRB Qtd.	Weight (kg)
SAF 609	1.7/16" 1.1/2" 40 mm	22309K	HA 2309 HE 2309 H 2309	69,85	193,5	245	70	33	—	101	25	18	135	(5/8")	32	25	10,5/100	1	6
SAF 610	1.11/16" 1.3/4" 45 mm	22310K	HA 2310 HE 2310 H 2310	76,2	212,5	270	70	35	—	115	25	18	148	(5/8")	35	29	11,5/110	1	6,1
SAF 611	1.15/16" 50 mm 2"	22311K	HA 2311 H 2311 HE 2311	82,55	223,5	279	79	37	51	121	25	18	157	1/2" (5/8")	37	30	12/120	1	7,5
SAF 613	2.3/16" 2.1/4" 60 mm	22313K	HA 2313 HE 2313 H 2313	88,9	262	330	89	36	54	137	32	22	177	5/8" (3/4")	41	32	10/140	1	12
SAF 615	2.7/16" 2.1/2" 65 mm	22315K	HA 2315 HE 2315 H 2315	101,6	279,5	350	99	40	54	159	32	22	199	5/8" (3/4")	46	34	10/160	1	17
SAF 616	2.11/16" 2.3/4" 70 mm	22316K	HA 2316 HE 2316 H 2316	107,95	295	362	99	43	54	159	34	22	210	5/8" (3/4")	50	34	10/170	1	18,5
SAF 617	2.15/16" 75 mm 3"	22317K	HA 2317 H 2317 HE 2317	114,2	314	388	111	44	60	172	38	22	222	5/8" (3/4")	52	45	10/180	1	24
SAF 618	80mm 3.3/16" 3.1/4"	22318K	H 2318 HA 2318 HE 2318	120,65	324	394	112	48	57	175	38	22	234	3/4"	54	51	10/190	1	30
SAF 620	3.7/16" 3.1/2" 90 mm	22320K	HA 2320 HE 2320 H 2320	133,35	352,4	420	121	50	70	188	38	22	261	3/4"	60	54	10/215	1	35
SAF 622	3.11/16" 100 mm 3.15/16" 4"	22322K	HS 2322 H 2322 HA 2322 HE 2322	152,4	389	467	130	61	83	203	41	26	292	7/8"	65	60	10/240	1	49
SAF 624	4.3/16" 4.1/4" 110 mm	22324K	HA 2324 HE 2324 H 2324	160,34	447,5	540	159	60	95	222	44	28	318	1"	69	64	10/260	1	62
SAF 626	4.7/16" 4.1/2" 115 mm	22326K	HA 2326 HE 2326 H 2326	169,86	465,5	559	159	62	95	222	50	28	338	1"	74	67	10/280	1	73
SAF 628	125 mm 4.15/16" 5"	22328K	H 2328 HA 2328 HE 2328	179,39	521	629	172	65	108	245	57	28	360	1"	79	70	10/300	1	95
SAF 630	5.3/16" 5.1/4" 135 mm	22330K	HA 2330 HE 2330 H 2330	190,5	565	680	181	67	117	254	65	28	378	1"	85	76	10/320	1	126
SAF 632	5.7/16" 5.1/2" 140 mm	22332K	HA 2332 HE 2332 H 2332	200,03	584	712	191	68	114	273	70	35	399	1.1/4"	88	80	10/340	1	146
SAF 634	150 mm 5.15/16" 6"	22334K	H 2334 HA 2334 HE 2334	209,55	603,5	750	203	70	127	286	70	35	419	1.1/4"	92	86	10/360	1	193
SAF 638	170 mm 6.3/4" 6.15/16"	22338K	H 2338 HE 2338 HA 2338	241,3	668,5	832	222	86	133	305	80	42	473	1.1/2"	98	96	10/400	1	225





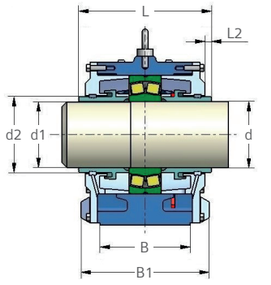


BC - Locating bearing, blind shaft

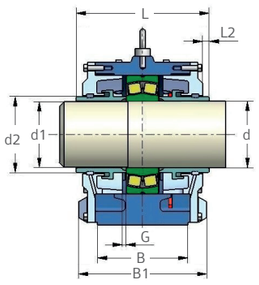


LC - Non-locating bearing, blind shaft

- See page 12 for technical features.
- For applications with different bearing series please consult our Engineering Department.
- Specification example: SOFN-224-BP = SOFN housing, size 224, made of grey cast iron with 4 holes on the base, prepared for 22224-C bearing, for locating bearing and passing shaft.
- N-SOFN-232-BC = N-SOFN housing, size 232, made of nodular cast iron with 4 holes on the base, prepared for 22232-C bearing, for locating bearing and blind shaft.
- Breathers, oil level gauges and temperature sensors can be acquired separately.



BP - Locating bearing, passing shaft

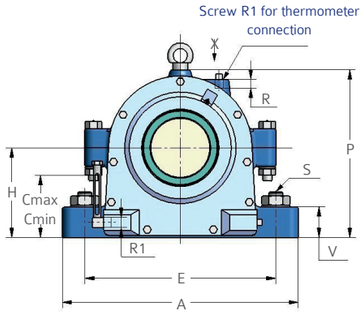


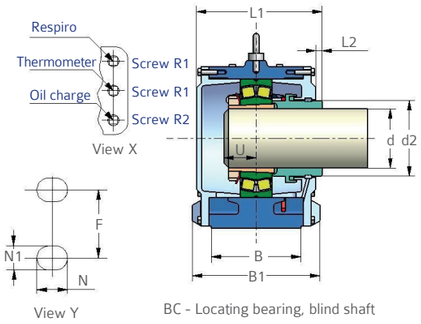
LP - Non-locating bearing, passing shaft

SOFN 200 Series																														
Housing	d	d1	Nut	Washer	Bearing	H	E	A	B	B1	d2	F	G	J	L	L1	L2	N	N1	P	R	R1	R2	S	U	V	C (mm)		Weight (kg)
																											min	max	
SOFN 217	85	83	KM 17	MB 17	22217 C	125	260	330	110	182	96	60	5	22	180	172	8	40	24	230	27	1/2"	3/8"	M20	60	35	60	65	33
SOFN 218	90	88	KM 18	MB 18	22218 C	135	290	360	120	190	100	70	5	23	190	180	10	40	24	245	27	1/2"	3/8"	M20	66	45	67	72	36
SOFN 219	95	93	KM 19	MB 19	22219 C	140	290	360	135	210	105	80	5	24	200	192	8	40	24	255	27	1/2"	3/8"	M20	71	40	68	76	40
SOFN 220	100	98	KM 20	MB 20	22220 C	145	320	400	130	205	110	75	5	25	206	196	10	45	28	270	27	1/2"	1/2"	M24	74	50	65	73	44
SOFN 222	110	108	KM 22	MB 22	22222 C	160	347	420	145	216	120	75	5	26	229	216	13	45	28	290	27	1/2"	1/2"	M24	77,5	50	73	81	55
SOFN 224	120	118	KM 24	MB 24	22224 C	170	347	420	170	245	135	90	8	28	276	258	18	45	28	315	27	1/2"	1/2"	M24	87	55	76	86	72
SOFN 226	130	128	KM 26	MB 26	22226 C	180	377	450	180	260	145	100	8	30	270	255	15	45	28	335	32	1/2"	1/2"	M24	91	60	80	90	86
SOFN 228	140	138	KM 28	MB 28	22228 C	190	415	500	190	265	160	100	8	30	280	265	15	45	35	355	33	1/2"	3/4"	M30	94	65	84	94	109
SOFN 230	150	148	KM 30	MB 30	22230 C	200	450	540	190	265	170	115	8	32	280	265	15	50	35	375	44	1/2"	3/4"	M30	99	65	84	94	126
SOFN 232	160	158	KM 32	MB 32	22232 C	215	470	560	205	280	178	120	10	35	316	298	18	50	35	405	38	1/2"	3/4"	M30	108	65	93	103	156
SOFN 234	170	168	KM 34	MB 34	22234 C	235	515	610	230	310	195	130	10	37	350	330	20	55	35	440	46	1/2"	3/4"	M30	115	70	103	113	192
SOFN 236	180	177	KM 36	MB 36	22236 C	245	545	650	240	320	205	150	10	38	360	340	20	65	35	455	44	1/2"	3/4"	M30	116	85	108	118	210
SOFN 238	190	188	KM 38	MB 38	22238 C	260	590	720	250	335	220	150	1 2	39	370	350	20	70	42	480	50	1/2"	3/4"	M36	132	85	115	125	240
SOFN 240	200	198	KM 40	MB 40	22240 C	275	600	730	260	350	227	160	12	40	378	358	20	70	42	510	44	1/2"	3/4"	M36	126	85	122	132	280
SOFN 244	220	218	HM 44T	MB 44	22244 C	305	670	820	280	370	255	180	12	44	404	385	20	80	42	565	48	1/2"	3/4"	M36	140	95	136	151	370
SOFN 248	240	238	HM 48T	MB 48	22248 C	340	740	900	290	380	270	190	12	47	420	400	20	80	42	625	56	1/2"	3/4"	M36	150	100	153	168	440

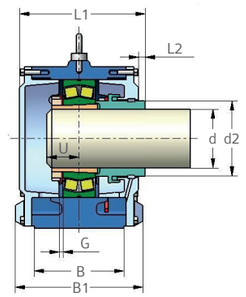
SOFN 300 Series																														
Housing	d	d1	Nut	Washer	Bearing	H	E	A	B	B1	d2	F	G	J	L	L1	L2	N	N1	P	R	R1	R2	S	U	V	C (mm)		Weight (kg)
																											min	max	
SOFN 310	50	49	KM 10	MB 10	22310 C	95	210	270	92	145	58	50	3	18	150	142	8	30	19	168	27	1/4"	3/8"	M16	53	30	50	55	23
SOFN 311	55	53	KM 11	MB 11	22311 C	100	233	290	95	148	65	50	3	17	155	147	8	33	19	180	27	1/4"	3/8"	M16	56,5	30	51	56	24
SOFN 312	60	58	KM 12	MB 12	22312 C	110	230	290	100	152	70	55	5	17	170	162	8	34	19	198	27	1/4"	3/8"	M16	62	30	57	62	25
SOFN 314	70	68	KM 14	MB 14	22314 C	125	260	330	110	182	80	60	5	18	180	172	8	40	24	230	27	1/2"	3/8"	M20	66	35	63	71	32
SOFN 316	80	78	KM 16	MB 16	22316 C	140	290	360	135	210	95	80	5	22	214	199	8	40	24	255	27	1/2"	3/8"	M20	74	40	70	78	39
SOFN 318	90	88	KM 18	MB 18	22318 C	155	317	400	165	246	104	95	5	22	240	225	15	45	28	280	32	1/2"	1/2"	M24	78	50	75	85	52
SOFN 320	100	98	KM 20	MB 20	22320 C	170	347	420	170	246	115	90	8	27	270	255	15	45	28	315	27	1/2"	1/2"	M24	91	55	79	89	71
SOFN 322	110	108	KM 22	MB 22	22322 C	190	415	500	190	265	130	100	8	28	290	270	20	45	35	355	33	1/2"	3/4"	M30	98	65	90	105	75
SOFN 324	120	118	KM 24	MB 24	22324 C	200	450	540	190	286	140	115	8	28	306	285	20	50	35	375	44	1/2"	3/4"	M30	100	65	92	107	125
SOFN 326	130	128	KM 26	MB 26	22326 C	215	470	560	205	286	150	120	8	30	320	300	20	50	35	405	38	1/2"	3/4"	M30	105	65	98	113	153
SOFN 328	140	138	KM 28	MB 28	22328 C	230	510	630	220	300	165	120	8	30	340	320	20	60	35	425	42	1/2"	3/4"	M30	117	80	110	125	182
SOFN 330	150	148	KM 30	MB 30	22330 C	245	545	650	240	320	175	150	10	33	350	335	18	65	35	455	44	1/2"	3/4"	M30	117	75	113	128	205
SOFN 332	160	158	KM 32	MB 32	22332 C	260	590	720	250	335	190	150	10	36	370	350	20	70	42	480	50	1/2"	3/4"	M36	130	85	120	135	236
SOFN 334	170	168	KM 34	MB 34	22334 C	275	600	730	260	350	197	160	12	37	378	358	20	70	42	510	44	1/2"	3/4"	M36	132	85	125	140	276
SOFN 336	180	178	KM 36	MB 36	22336 C	305	670	820	280	370	210	180	12	38	404	385	20	80	42	565	46	1/2"	3/4"	M36	140	95	148	163	366

3.17 | SOFN 500-600

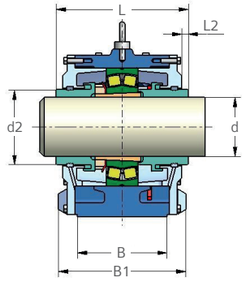




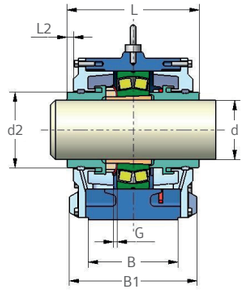
BC - Locating bearing, blind shaft



LC - Non-locating bearing, blind shaft



BP - Locating bearing, passing shaft



LP - Non-locating bearing, passing shaft

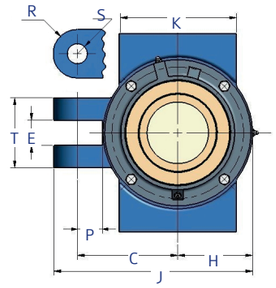
- See page 12 and 13 for technical features.
- For applications with different bearing series please consult our Engineering Department.
- Specification example: SOFN-524-BP = SOFN housing, size 524, made of grey cast iron with 4 holes on the base, prepared for 22224-K bearing and H-3124 adapter sleeve, for locating bearing and passing shaft.
- N-SOFN-632-BC = N-SOFN housing, size 632, made of nodular cast iron with 4 holes on the base, prepared for 22332-K bearing and H-2332 adapter sleeve, for locating bearing and blind shaft.
- Breathers, oil level gauges and temperature sensors can be acquired separately.

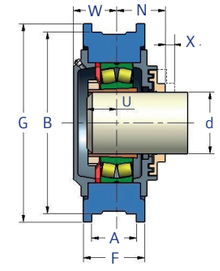
SOFN 500 Series

Housing	d1	Bearing	Adapter sleeve (complete)	H	E	A	B	B1	D2	F	G	L	L1	L2	N	N1	P	R	R1	R2	S	U	V	C (mm)		Weight (kg)
																								min	max	
SOFN 517	75	22217K	H 317	125	260	330	110	182	96	60	5	180	172	8	40	24	230	27	1/2″	3/8″	M20	44	35	60	65	34
SOFN 518	80	22218K	H 318	135	290	360	120	190	100	70	5	190	180	10	40	24	245	27	1/2″	3/8″	M20	46	45	67	72	38
SOFN 519	85	22219K	H 319	140	290	360	135	210	105	80	5	200	192	8	40	24	255	27	1/2″	3/8″	M20	50	40	68	76	41
SOFN 520	90	22220K	H 320	145	320	400	130	205	110	75	5	206	196	10	45	28	270	27	1/2″	1/2″	M24	54	50	65	73	46
SOFN 522	100	22222K	H 322	160	347	420	145	216	120	75	5	229	216	13	45	28	290	27	1/2″	1/2″	M24	58	50	73	81	58
SOFN 524	110	22224K	H 3124	170	347	420	170	245	135	90	8	276	258	18	45	28	315	27	1/2″	1/2″	M24	60	55	76	86	73
SOFN 526	115	22226K	H 3126	180	377	450	180	260	145	100	8	270	255	15	45	28	335	32	1/2″	1/2″	M24	64	60	80	90	88
SOFN 528	125	22228K	H 3128	190	415	500	190	265	160	100	8	280	265	15	45	35	355	33	1/2″	3/4″	M30	68	65	84	94	112
SOFN 530	135	22230K	H 3130	200	450	540	190	265	170	115	8	280	265	15	50	35	375	44	1/2″	3/4″	M30	74	65	84	94	113
SOFN 532	140	22232K	H 3132	215	470	560	205	280	178	120	10	316	298	18	50	35	405	38	1/2″	3/4″	M30	76	65	93	103	160
SOFN 534	150	22234K	H 3134	235	515	610	230	310	195	130	10	350	330	20	55	35	440	46	1/2″	3/4″	M30	79	70	103	113	197
SOFN 536	160	22236K	H 3136	245	545	650	240	320	205	150	10	360	340	20	65	35	455	44	1/2″	3/4″	M30	79	85	108	118	215
SOFN 538	170	22238K	H 3138	260	590	720	250	335	220	150	12	370	350	20	70	42	480	50	1/2″	3/4″	M36	86	85	115	125	246
SOFN 540	180	22240K	H 3140	275	600	730	260	350	227	160	12	378	358	20	70	42	510	44	1/2″	3/4″	M36	89	85	122	132	285
SOFN 544	200	22244K	H 3144	305	670	820	280	370	255	180	12	404	385	20	80	42	565	48	1/2″	3/4″	M36	95	95	136	151	382
SOFN 548	220	22248K	H 3148	340	740	900	290	380	270	190	12	420	400	20	80	42	625	56	1/2″	3/4″	M36	102	100	153	168	453

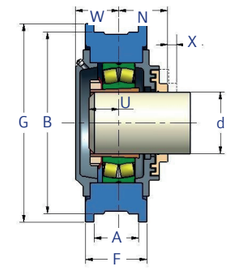
SOFN 600 Series

Housing	d1	Bearing	Adapter sleeve (complete)	H	E	A	B	B1	D2	F	G	L	L1	L2	N	N1	P	R	R1	R2	S	U	V	C (mm)		Weight (kg)
																								min	max	
SOFN 610	45	22310K	H 2310	95	210	270	92	145	58	50	3	150	142	8	27	1/4″	3/8″	30	19	168	M16	35	30	50	55	23
SOFN 611	50	22311K	H 2311	100	233	290	95	148	65	50	3	155	147	8	27	1/4″	3/8″	33	19	180	M16	37	30	51	56	24
SOFN 612	55	22312K	H 2312	110	230	290	100	152	70	55	5	170	162	8	27	1/4″	3/8″	34	19	198	M16	39	30	57	62	26
SOFN 614	60	22314K	H 2314	125	260	330	110	182	80	60	5	180	172	8	27	1/2″	3/8″	40	24	230	M20	43	35	63	71	33
SOFN 616	70	22316K	H 2316	140	290	360	135	210	95	80	5	214	199	8	27	1/2″	3/8″	40	24	255	M20	50	40	70	78	40
SOFN 618	80	22318K	H 2318	155	317	400	165	246	104	95	5	240	225	15	32	1/2″	1/2″	45	28	280	M24	54	50	75	85	53
SOFN 620	90	22320K	H 2320	170	347	420	170	246	115	90	8	270	255	15	27	1/2″	1/2″	45	28	315	M24	61	55	79	89	72
SOFN 622	100	22322K	H 2322	190	415	500	190	265	130	100	8	290	270	20	33	1/2″	3/4″	45	35	355	M30	65	65	90	105	109
SOFN 624	110	22324K	H 2324	200	450	540	190	286	140	115	8	306	285	20	44	1/2″	3/4″	50	35	375	M30	69	65	92	107	126
SOFN 626	115	22326K	H 2326	215	470	560	205	286	150	120	8	320	300	20	38	1/2″	3/4″	50	35	405	M30	74	65	98	113	156
SOFN 628	125	22328K	H 2328	230	510	630	220	300	165	120	8	340	320	20	42	1/2″	3/4″	60	35	425	M30	79	80	110	125	185
SOFN 630	135	22330K	H 2330	245	545	650	240	320	175	150	10	350	335	18	44	1/2″	3/4″	65	35	455	M30	85	75	113	128	210
SOFN 632	140	22332K	H 2332	260	590	720	250	335	190	150	10	370	350	20	50	1/2″	3/4″	70	42	480	M36	88	85	120	135	240
SOFN 634	150	22334K	H 2334	275	600	730	260	350	197	160	12	378	358	20	44	1/2″	3/4″	70	42	510	M36	92	85	125	140	280
SOFN 636	160	22336K	H 2336	305	670	820	280	370	210	180	12	404	385	20	46	1/2″	3/4″	80	42	565	M36	94	95	148	163	372

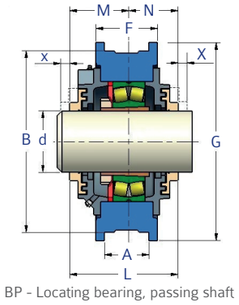




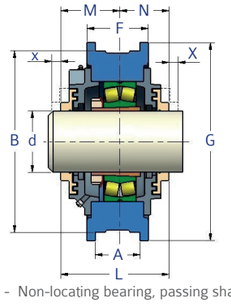
BC - Locating bearing, blind shaft



LC - Non-locating bearing, blind shaft



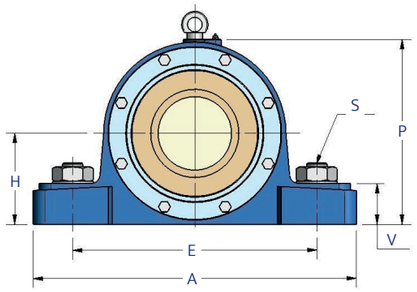
BP - Locating bearing, passing shaft

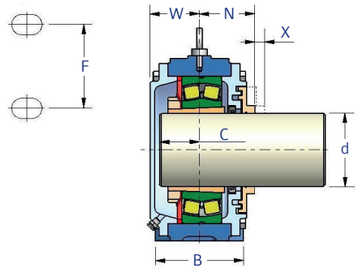


LP - Non-locating bearing, passing shaft

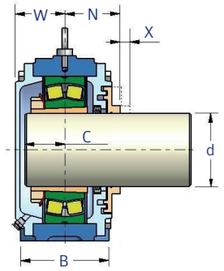
- See page 13 for technical features.
- Standard seal "AS" – axial labyrinth, see page 05. For seal types ASR, R, ZF, TC and GS, the dimensions are maintained. Should a different type of seal be requested, the dimensions of the columns "L", "N" and "M" on the table can be modified, but our engineering department should be consulted for more information.
- For applications with other bearing series please consult our Engineering Department.
- Specification example: STM-157-BP-AS = STM housing, size 157, made of nodular cast iron, prepared for 22215-K bearing and HA-315 adapter sleeve, for locating bearing and passing shaft, with taconite proof labyrinth seal type AS.
- STM-30-LC-ASR = STM housing, size 30, made of nodular cast iron, prepared for 22230-K bearing and H-3130 adapter sleeve, for non-locating bearing and blind shaft, with taconite proof seal composed of AS axial labyrinth and R retainer.
- The standard material for these housings is nodular cast iron.

Housing	Shaft diameter		Bearing	Adapter sleeve (complete)	Dimensions (mm)																			Weight (kg)
	mm	inches			A	B	C	E	F	G	H	J	K	L	M	N	P	R	S	T	U	W	X	
STM 084		1.1/4″		HE 308																				
STM 086		1.3/8″	22208K	HS 308	60	130	78	24	80	150	55	153	80	97	51	46	25	20	19	60	26	36	10	4,5
STM 08	35			H 308																				
STM 097		1.7/16″		HA309																				
STM 098		1.1/2″	22209K	HE 309	60	135	81	24	80	155	58	163	80	108	56	52	21	24	19	60	28	38	10	5,2
STM 09	40			H 309																				
STM 100		1.5/8″		HS 310																				
STM 101		1.11/16″	22210K	HA310	60	145	86	24	80	165	60	169	80	114	60	54	22	23	19	60	28	39	13	5,4
STM 102		1.3/4″		HE 310																				
STM 10	45			H 310																				
STM 114		1.7/8″		HS 311																				
STM 115		1.15/16″	22211K	HA 311	70	155	90	24	90	175	68	184	82	115	59,5	55,5	22	26	19	60	30	41	13	6,6
STM 11	50			H 311																				
STM 110		2″		HE 311																				
STM 122		2.1/8″	22212K	HS 312	70	165	94	24	90	185	72	192	88	118	63	55	20	26	19	60	34	45	13	7,5
STM 12	55			H 312																				
STM 133		2.3/16″		HA 313																				
STM 134		2.1/4″	22213K	HE 313	70	175	111	26	90	195	78	218	100	119	64	55	31	29	22	70	36	48	13	9,8
STM 13	60			H 313																				
STM 136		2.3/8″		HS 313																				
STM 157		2.7/16″		HA 315																				
STM 158		2.1/2″	22215K	HE 315	70	190	115	28	90	210	85	225	120	125	65	60	34	25	25	70	38	50	13	12
STM 15	65			H 315																				
STM 161		2.11/16″		HA316																				
STM 162		2.3/4″	22216K	HE316	70	230	136	35	95	255	91	257	120	138	73	65	43	30	30	95	42	55	14	17
STM 16	70			H 316																				
STM 175		2.15/16″		HA317																				
STM 17	75		22217K	H317	70	245	145	40	95	270	100	275	150	143	75,5	67,5	45	30	30	120	44	57	14	21
STM 170		3″		HE317																				
STM 18	80			H318																				
STM 183		3.3/16″	22218K	HA318	70	250	147	40	95	275	101	286	150	147	77,5	69,5	42	38	30	120	46	59	15	23
STM 184		3.1/4″		HE318																				
STM 194		3.1/4″	22219K	HE319	70	255	154	40	95	280	108	300	160	162	88	74	42	38	30	120	50	63	16	24
STM 19	85			H 319																				
STM 207		3.7/16″		HA320																				
STM 208		3.1/2″	22220K	HE320	70	275	165	40	95	300	125	325	160	163	88,5	74,5	45	35	30	120	54	67	16	29
STM 20	90			H320																				
STM 221		3.11/16″		HS 322																				
STM 22	100		22222K	H322	80	310	170	40	110	340	135	345	200	170	93	77	45	40	35	120	58	71	16	43
STM 225		3.15/16″		HA322																				
STM 220		4″		HE322																				
STM 243		4.3/16″		HA 3124																				
STM 244		4.1/4″	22224K	HE 3124	80	325	180	45	110	355	134	356	210	182	96	86	45	42	35	125	60	76	18	48
STM 24	110			H 3124																				
STM 267		4.7/16″		HA 3126																				
STM 268		4.1/2″	22226K	HE 3126	80	340	190	45	110	370	146	380	220	203	111	92	44	44	35	125	64	79	21	54
STM 26	115			H 3126																				
STM 28	125			H3128																				
STM 285		4.15/16″	22228K	HA3128	90	370	208	50	120	400	151	411	230	212	116	96	48	52	40	140	68	84	21	70
STM 280		5″		HE3128																				
STM 303		5.3/16″		HA 3130																				
STM 304		5.1/4″	22230K	HE 3130	90	390	230	50	120	420	161	446	240	236	125,5	110,5	55	55	40	140	74	92	21	76
STM 30	135			H 3130																				

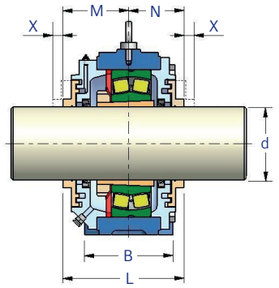




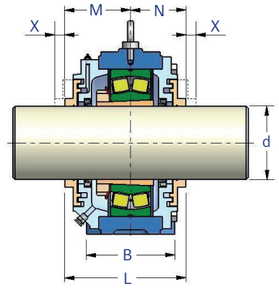
BC - Locating bearing, blind shaft



LC - Non-locating bearing, blind shaft



BP - Locating bearing, passing shaft

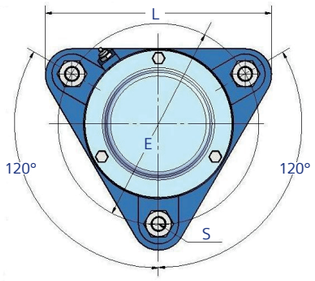


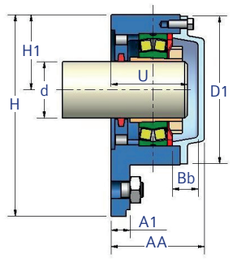
LP - Non-locating bearing, passing shaft

- See page 13 for technical features.
- Standard seal "AS" – axial labyrinth, see page 05. For seal types ASR, R, ZF, TC, GS, the dimensions are maintained. Should a different type of seal be requested, the dimensions of the columns "L", "N" and "M" on the table can be modified, but our engineering department should be consulted for more information.
- For applications with other bearing series please consult our Engineering Department.
- Up to and including sizes 327/328/32 are supplied with only two holes on the base; for 4 holes please consult our Engineering Department.
- Specification example: SAI-157-BP-AS = SAI housing, size 157, made of grey cast iron, with 2 holes on the base, prepared for 22215-K bearing and HA-315 adapter sleeve, for locating bearing and passing shaft, with taconite proof labyrinth seal type AS.
- NSAI-34-LC-ASR = NSAI housing, size 34, made of nodular cast iron with 4 holes on the base, prepared for 22234-K bearing and H-3134 adapter sleeve, for non-locating bearing and blind shaft, with taconite proof seal composed of AS axial labyrinth and R retainer.

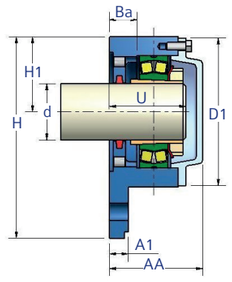
Housing	Shaft diameter		Bearing	Adapter sleeve (complete)	Dimensions (mm)														Weight (kg)
	mm	inches			H	E	A	B	F	L	M	N	P	S	V	C	W	X	
SAI 097 SAI 098 SAI 09	40	1.7/16″ 1.1/2″	22209K	HA 309 HE 309 H 309	55	165	210	55	—	108	56	52	115	1/2″	28	28	36	10	4
SAI 100 SAI 101 SAI 102 SAI 10	45	1.5/8″ 1.11/16″ 1.3/4″	22210K	HS 310 HA 310 HE 310 H 310	60	180	230	55	—	120	60	60	124	1/2″	28	28	37	13	4,7
SAI 114 SAI 115 SAI 11 SAI 110	50	1.7/8″ 1.15/16″ 2″	22211K	HS 311 HA 311 H 311 HE 311	60	185	240	55	—	115	59,5	55,5	128	5/8″	30	30	40	13	5,6
SAI 122 SAI 12	55	2.1/8″	22212K	HS 312 H 312	65	200	250	60	—	118	63	55	140	5/8″	32	34	45	13	7
SAI 133 SAI 134 SAI 13 SAI 136	60	2.3/16″ 2.1/4″ 2.3/8″	22213K	HA 313 HE 313 H 313 HS 313	70	210	270	70	—	119	64	55	150	5/8″	36	36	47	13	8
SAI 157 SAI 158 SAI 15	65	2.7/16″ 2.1/2″	22215K	HA 315 HE 315 H 315	95	260	340	90	—	125	65	60	190	3/4″	46	38	48	13	13,5
SAI 161 SAI 162 SAI 16	70	2.11/16″ 2.3/4″	22216K	HA 316 HE 316 H 316	95	280	360	90	—	138	73	65	190	7/8″	46	42	53	14	15
SAI 175 SAI 17 SAI 170	75	2.15/16″ 3″	22217K	HA 317 H 317 HE 317	100	290	380	95	—	143	75,5	67,5	203	7/8″	50	44	57	14	19
SAI 18 SAI 183 SAI 184	80	3.3/16″ 3.1/4″	22218K	H 318 HA 318 HE 318	105	300	400	95	—	147	77,5	69,5	210	7/8″	56	46	60	15	21
SAI 194 SAI 19	85	3.1/4″	22219K	HE 319 H 319	115	320	420	100	—	162	88	74	233	1″	60	50	63	16	24
SAI 207 SAI 208 SAI 20	90	3.7/16″ 3.1/2″	22220K	HA 320 HE 320 H 320	120	330	430	100	—	163	88,5	74,5	243	1″	60	54	69	16	22
SAI 221 SAI 22 SAI 225 SAI 220	100	3.11/16″ 3.15/16″ 4″	22222K	HS 322 H 322 HA 322 HE 322	140	360	470	115	—	170	93	77	275	1.1/8″	70	58	73	16	32

Housing	Shaft diameter		Bearing	Adapter sleeve (complete)	Dimensions (mm)														Weight (kg)
	mm	inches			H	E	A	B	F	L	M	N	P	S	V	C	W	X	
SAI 243 SAI 244 SAI 24	110	4.3/16″ 4.1/4″	22224K	HA 3124 HE 3124 H 3124	145	400	520	135	—	182	96	86	285	1.1/4″	70	60	82	18	37
SAI 267 SAI 268 SAI 26	115	4.7/16″ 4.1/2″	22226K	HA 3126 HE 3126 H 3126	150	410	530	140	—	203	111	92	300	1.1/4″	70	64	87	21	50
SAI 28 SAI 285 SAI 280	125	4.15/16″ 5″	22228K	H 3128 HA 3128 HE 3128	155	430	550	150	—	210	114	96	315	1.1/4″	70	68	91	21	53
SAI 303 SAI 304 SAI 30	135	5.3/16″ 5.1/4″	22230K	HA 3130 HE 3130 H 3130	165	460	570	160	—	239	127	112	336	1.1/2″	75	74	92	21	58
SAI 327 SAI 328 SAI 32	140	5.7/16″ 5.1/2″	22232K	HA 3132 HE 3132 H 3132	175	490	610	170	—	253	136	117	362	1.1/2″	75	76	99	23	78
SAI 34 SAI 345 SAI 340	150	5.15/16″ 6″	22234K	H 3134 HA 3134 HE 3134	195	500	620	190	100	261	143	118	395	1.1/4″	75	79	106	23	99
SAI 367 SAI 368 SAI 36	160	6.7/16″ 6.1/2″	22236K	HA 3136 HE 3136 H 3136	200	540	660	210	110	270	143	127	397	1.1/4″	75	79	102	23	102
SAI 38 SAI 382 SAI 385	170	6.3/4″ 6.15/16″	22238K	H 3138 HE 3138 HA 3138	210	570	700	230	120	279	152	127	416	1.1/2″	80	86	105	23	119
SAI 400 SAI 40 SAI 403	180	7″ 7.3/16″	22240K	HE 3140 H 3140 HA 3140	220	610	740	250	130	291	159	132	446	1.1/2″	85	89	113	23	136
SAI 448 SAI 44 SAI 445	200	7.1/2″ 7.15/16″	22244K	HE 3144 H 3144 HA 3144	240	680	820	270	140	309	170	139	485	1.5/8″	100	95	120	26	187
SAI 487 SAI 488 SAI 48	220	8.7/16″ 8.1/2″	22248K	HA 3148 HE 3148 H 3148	260	700	830	290	150	316	170	146	530	1.5/8″	100	102	140	26	220
SAI 527 SAI 52 SAI 528	240	9.7/16″ 9.1/2″	22252K	HA 3152 H 3152 HE 3152	290	760	850	310	160	336	178	158	590	1.3/4″	105	110	145	26	279
SAI 565 SAI 560 SAI 56	260	9.15/16″ 10″	22256K	HA 3156 HE 3156 H 3156	300	780	870	320	170	344	182	162	610	1.3/4″	110	112	150	26	305
SAI 605 SAI 600 SAI 60	280	10.15/16″ 11″	22260K	HA 3160 HE 3160 H 3160	330	860	960	340	190	374	200	174	670	2″	115	124	155	28	360
SAI 647 SAI 648 SAI 64	300	11.7/16″ 11.1/2″	22264K	HA 3164 HE 3164 H 3164	350	900	1000	360	200	410	216	194	710	2″	120	130	170	29	432



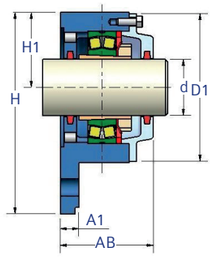


BC - Locating bearing, blind shaft

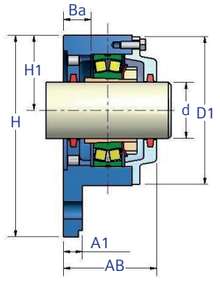


LC -Non-locating bearing, blind shaft

- See page 14 for technical features.
- Standard seal "TC" – felt strip, see page 04.
- Specification example: F-515-BC + 1 FRB-10/130 = F-500 housing, size 515, made of grey cast iron, for locating bearing and blind shaft, for bearings type 2215-K or 22215-K.
- When ordering, always indicate the bearings or locating rings used.
- For shafts with diameters in inches please contact our engineering department and specify on order form, otherwise it shall be manufactured in millimeters, as it is the standard measure for this series.
- One felt strip for housing type A and two felt strips for housing type B should be used.

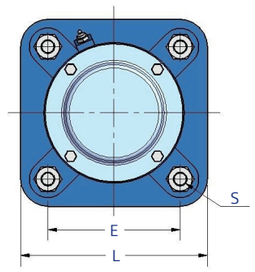


BP - Locating bearing, passing shaft

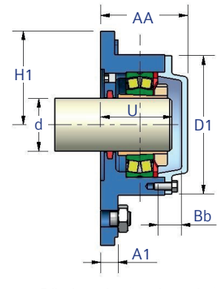


LP - Non-locating bearing, passing shaft

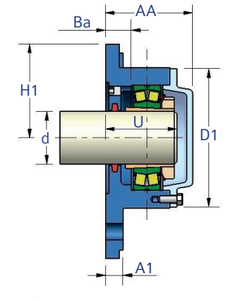
Housing	Shaft d	Bearing designation	Adapter sleeve	Lock ring		Dimensions (mm)												Felt	Weight (kg)
				Qtt.	Specification	AA	AB	AI	Ba	Bb	DI	H	HI	E	L	S	U		
F-505	20	1205K	H 205	1	FRB 5/52	51,5	56,5	10	15	12,5	75	100	38	96	110	10	45	FS110	1,1
		2205K	H 305	1	ZW 42x52														
		22205K	H 305	1	ZW 42x52														
F-506	25	1206K	H 206	1	FRB 6/62	57	59,5	12	16	15	86	117	44	116	130	10	49	FS190	1,5
		2206K	H 306	1	ZW 50x62														
		22206K	H 306	1	ZW 50x62														
F-507	30	1207K	H 207	1	FRB 8/72	59,5	63,5	12	16	14,5	97	130	48,5	130	145	12	52	FS190	1,8
		2207K	H 307	1	ZW 65x72														
		22207K	H 307	1	ZW 65x72														
F-508	35	1208K	H 208	1	FRB 7/80	64	65,5	12	17	18	108	143	54	140	160	12	53,5	FS190	2,9
		2208K	H 308	1	ZW 70x80														
		22208K	H 308	1	ZW 70x80														
F-509	40	1209K	H 209	1	FRB 6/85	64,5	69,5	12	19	16,5	113	160	60	160	180	12	56	FS190	3,1
		2209K	H 309	1	ZW 75x85														
		22209K	H 309	1	ZW 75x85														
F-510	45	1210K	H 210	1	FRB 5/90	68,5	73	15	22	17,5	118	160	60	160	180	12	61	FS190	3,8
		2210K	H 310	1	ZW 80x90														
		22210K	H 310	1	ZW 80x90														
F-511	50	1211K	H 211	1	FRB 6/100	75,5	81,5	15	24	19,5	128	172	65	170	192	12	66	FS260	4
		2211K	H 311	1	ZW 85x100														
		22211K	H 311	1	ZW 85x100														
F-512	55	1212K	H 212	1	FRB 8/110	77	82	15	23	19	142	189	72	180	210	12	68	FS260	4,6
		2212K	H 312	1	ZW 90x110														
		22212K	H 312	1	ZW 90x110														
F-513	60	1213K	H 213	1	FRB 10/120	80	86	15	22	20	152	203	78	190	225	12	71	FS260	6
		2213K	H 313	1	FRB 2/120														
		22213K	H 313	1	FRB 2/120														



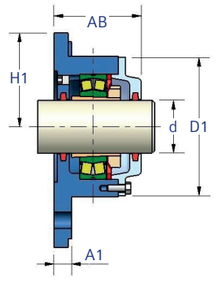
- See page 14 for technical features.
- Standard seal "TC" – felt strip, see page 04.
- Specification example: F-515-BC + 1 FRB-10/130 = F-500 housing, size 515, made of grey cast iron, for locating bearing and blind shaft, for bearings type 2215-K or 22215-K.
- When ordering, always indicate the bearings or locating rings used.
- For shafts with diameters in inches please contact our engineering department and specify on order form, otherwise it shall be manufactured in millimeters, as it is the standard measure for this series.
- One felt strip for housing type A and two felt strips for housing type B should be used.



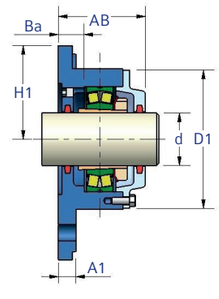
BC - Locating bearing, blind shaft



LC - Non-locating bearing, blind shaft



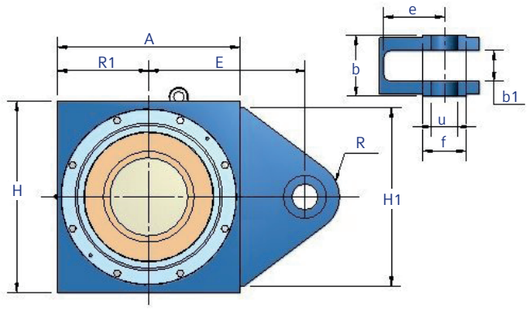
BP - Locating bearing, passing shaft



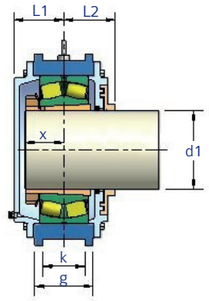
LP - Non-locating bearing, passing shaft

Housing	Shaft d	Bearing designation	Adapter sleeve	Lock ring		Dimensions (mm)												Felt	Weight (kg)
				Qtt	Specification.	AA	AB	AI	Ba	Bb	DI	HI	E	L	S	U			
F-515	65	1215K	H 215	2	FRB 8/130	104	104	25	30	27	168	95	152	190	16	93	FS260	10	
		2215K	H 315	1	FRB 10/130														
		22215K	H 315	1	FRB 10/130														
F-516	70	1216K	H 216	2	FRB 8,5/140	110	110	25	31	30	176	98	152	196	16	96	FS330	10,3	
		2216K	H 316	1	FRB 10/140														
		22216K	H 316	1	FRB 10/140														
F-517	75	1217K	H 217	2	FRB 9/150	114	114	25	31	30	188	105	170	210	16	72	FS330	12,6	
		2217K	H 317	1	FRB 10/150														
		22217K	H 317	1	FRB 10/150														
F-518	80	1218K	H 218	2	FRB 10/160	118	118	25	30	31	198	105	170	210	16	105	FS330	13	
		2218K	H 318	1	FRB 10/160														
		22218K	H 318	1	FRB 10/160														
F-520	90	1220K	H 220	2	FRB 11/180	127	127	30	30	33	224	125	198	250	20	113	FS370	20	
		2220K	H 320	1	FRB 10/180														
		22220K	H 320	1	FRB 10/180														
F-522	100	1222K	H 222	2	FRB 12,5/200	137	137	30	30	38	246	135	219	270	20	123	FS460	22	
		2222K	H 322	1	FRB 10/200														
		22222K	H 322	1	FRB 10/200														

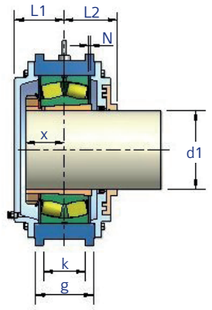
3.21 | HSPA



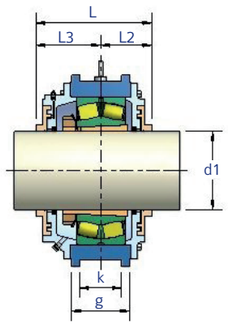
BC - Locating bearing, blind shaft



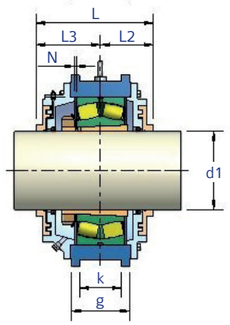
LC - Non-locating bearing, blind shaft



- See page 13 for technical features.
- Standard seal "AS" – axial labyrinth, see page 05. For seal types ASR, R, ZF, TC and GS, the dimensions are maintained. Should a different type of seal be requested, the dimensions of the columns "L", "N" and "M" on the table can be modified, but our engineering department should be consulted for more information.
- For bearings of the 222-K, 230-K 231-K and 232-K series. For applications with other bearing series please consult our Engineering Department.
- Specification example: HSPA-3136-BP-AS = HSPA housing, size 3136, made of nodular cast iron, prepared for 23136-K bearing and H-3136 adapter sleeve, for locating bearing and passing shaft, with taconite proof labyrinth seal type AS.
- HSPA-3036-LP-ASR = HSPA housing, size 3036, made of nodular cast iron, prepared for 23036-K bearing and H-3036 adapter sleeve, for non-locating bearing and passing shaft, with taconite proof seal composed of AS axial labyrinth and R retainer.
- Obs.: The standard material for these housings is nodular cast iron.

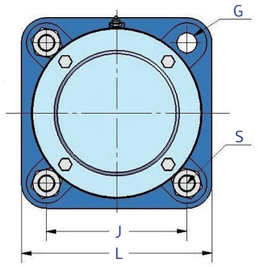


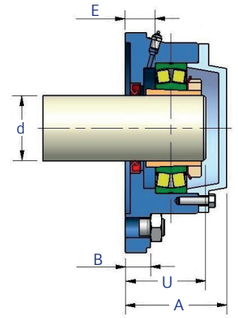
BP - Locating bearing, passing shaft



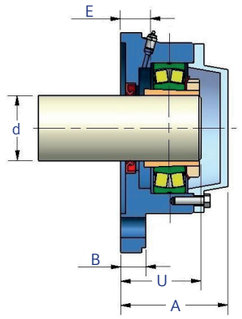
LP - Non-locating bearing, passing shaft

Housing	Bearing	Adapter sleeve	d1	A	R1	H	H1	E	e	f	u	b	b1	L	L1	L2	L3	g	k	X	N	R	Weight (kg)
HSPA 2228	22228K	H 3128	125	315	155	330	300	230	70	70	40	76	40	226	78	113	113	83	53	65	3	45	43
HSPA 3028	23028K	H 3028	125	260	130	300	270	225	90	90	50	150	60	156	68	68	88	70	45	55	3	70	50
HSPA 3030	23030K	H 3030	135	280	140	320	290	235	90	90	50	150	60	194	82	82	112	85	45	60	2	70	60
HSPA 3132	23132K	H 3132	140	370	185	370	340	350	160	100	61	132	62	229	108	108	121	116	65	78	3	90	125
HSPA 3034	23034K	H 3034	150	325	162,5	360	330	260	90	90	50	150	60	201	88	88	113	102	65	68	2	70	87
HSPA 3134	23134K	H 3134	150	375	187,5	400	370	395	180	100	60	132	62	249	113	113	136	120	65	80	3	90	150
HSPA 2236	22236K	H 3136	160	420	210	440	410	380	170	140	80	135	65	255	95	120	135	114	60	80	3	100	200
HSPA 3036	23036K	H 3036	160	350	175	390	360	275	90	90	50	150	60	201	88	88	113	100	65	72	3	70	105
HSPA 3136	23136K	H 3136	160	400	200	440	410	360	158	140	80	135	65	248	105	113	135	120	60	80	3	100	180
HSPA 3236	23236K	H 2336	160	420	210	450	410	300	90	140	80	140	70	285	110	135	150	140	93	90	3	90	230
HSPA3038	23038K	H 3038	170	375	180	440	400	290	90	90	50	150	60	211	88	93	118	105	65	72	3	70	135
HSPA 3040	23040K	H 3040	180	390	200	430	400	275	85	120	70	125	62	240	108	107	133	125	83	78	3	80	160
HSPA 3140	23140K	H 3140	180	420	210	440	410	360	140	100	60	140	70	270	115	120	150	140	100	95	2	80	175
HSPA 3044	23044K	H 3044	200	430	210	480	440	325	100	100	60	200	70	241	103	103	138	120	65	80	3	80	185
HSPA 3144	23144K	H 3144	200	470	235	510	480	530	260	140	100	144	74	295	125	135	160	150	65	95	4	120	265
HSPA 3148	23148K	H 3148	220	520	260	540	500	515	250	250	100	215	123	328	129	149	179	152	65	110	4	150	310
HSPA 3052	23052K	H 3052	240	500	245	540	500	515	250	250	100	215	123	261	113	113	148	135	65	94	4	150	240
HSPA 3152	23152K	H 3152	240	550	275	570	540	565	270	250	100	225	135	336	140,5	150,5	185,5	175	80	115	4	150	330
HSPA 3252	23252K	H 2352	240	596	298	610	570	615	300	240	100	240	173	375	157,5	167,5	207,5	205	103	130	3	150	420
HSPA 3156	23156K	H 3156	260	600	300	610	570	615	300	240	100	225	135	351	148	158	193	205	103	120	4	150	360
HSPA 3160	23160K	H 3160	280	630	315	650	610	650	310	200	100	270	170	385	155	170	215	190	130	130	4	150	440
HSPA 2260	22260K	H 3160	280	660	330	680	640	630	280	200	105	220	150	370	160,5	174,5	195,5	177	80	120	4	170	530
HSPA 3260	23260K	H 3260	280	680	340	690	650	680	310	260	100	270	190	404	187	182	222	230	115	145	4	180	625
HSPA 3164	23164K	H 3164	300	680	340	700	660	680	340	240	110	300	180	395	192	180	215	210	140	135	4	180	580
HSPA 3168	23168K	H 3168	320	740	370	740	700	720	310	240	120	300	180	445	200	200	245	220	150	160	4	200	640
HSPA 3268	23268K	H 3268	320	735	385	740	700	750	310	240	110	300	213	475	238	203	272	265	123	210	5	200	650
HSPA 3272	23272K	H 3272	340	800	400	830	790	765	310	280	130	330	213	509	222	227	282	275	123	190	5	225	890
HSPA 3176	23176K	H 3176	360	750	375	780	740	750	320	230	110	300	200	459	202	202	257	230	120	170	5	200	720
HSPA 3276	23276K	H 3276	360	810	405	820	780	780	305	240	110	300	213	529	257	232	297	295	123	220	5	200	910



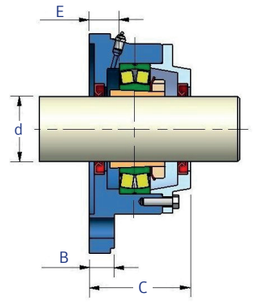


BC - Locating bearing, blind shaft

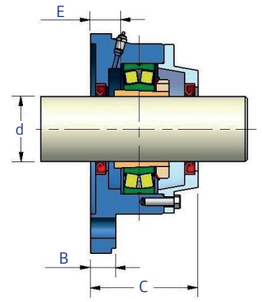


LC - Non-locating bearing, blind shaft

- See page 14 for technical features.
- Standard seal "R" - one piece nitrile rubber retainer with spring, see page 05. Should a different type of seal be requested, the dimensions of the columns "A" and "C" on the table can be modified, but our engineering department should be consulted for more information
- Specification example: HFR 157 BP = HFR housing, size 157, made of grey cast iron, prepared for 22215-K bearing and HA-315 adapter sleeve, for locating bearing and passing shaft, with R seal - nitrile rubber retainer with spring.



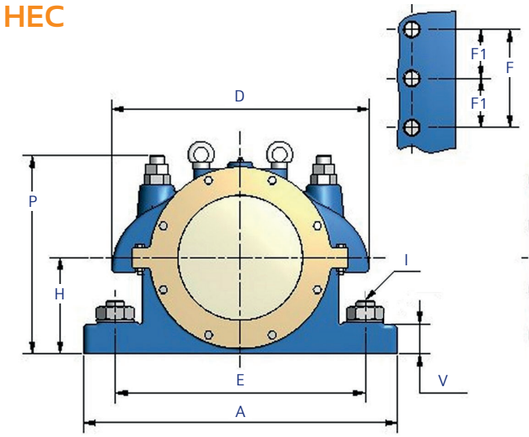
BP - Locating bearing, passing shaft

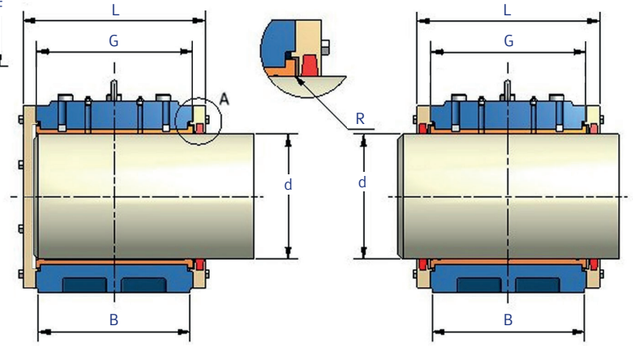


LP - Non-locating bearing, passing shaft

Housing	d		Bearing	Adapter sleeve	Dimensions (mm)									Weight (kg)
	mm	inches			L	J	A	C	B	G	S	U	E	
HFR 052 HFR 05	20	3/4"	22205K	HE 305 H 305	100	68	57	60	10	11	3/8"	45	15	1
HFR 065 HFR 06 HFR 060	25	15/16" 1"	22206K	HA 306 H 306 HE 306	117	82	60	62	12	11	3/8"	49	17	1,5
HFR 072 HFR 07 HFR 073	30	1.1/8" 1.3/16"	22207K	HS 307 H 307 HA 307	130	92	63	64	12	14	1/2"	52	16	2
HFR 084 HFR 086 HFR 08	35	1.1/4" 1.3/8"	22208K	HE 308 HS 308 H 308	143	99	67	66	12	14	1/2"	56	17	3
HFR 097 HFR 098 HFR 09	40	1.7/16" 1.1/2"	22209K	HA 309 HE 309 H 309	160	114	74	70	12	14	1/2"	62	24	4,5
HFR 100 HFR 101 HFR 102 HFR 10	45	1.5/8" 1.11/16" 1.3/4"	22210K	HS 310 HA 310 HE 310 H 310	160	114	75	74	15	14	1/2"	62	22	5
HFR 114 HFR 115 HFR 11 HFR 110	50	1.7/8" 1.15/16" 2"	22211K	HS 311 HA 311 H 311 HE 311	170	120	80	82	15	14	1/2"	70	28	6
HFR 122 HFR 12	55	2.1/8"	22212K	HS 312 H 312	185	128	82	84	15	14	1/2"	69	23	6,5
HFR 133 HFR 134 HFR 13 HFR 136	60	2.3/16" 2.1/4" 2.3/8"	22213K	HA 313 HE 313 H 313 HS 313	198	134	88	86	15	14	1/2"	73	23	8
HFR 157 HFR 158 HFR 15	65	2.7/16" 2.1/2"	22215K	HA 315 HE 315 H 315	190	152	104	105	25	19	5/8"	81	30	8,5
HFR 161 HFR 162 HFR 16	70	2.11/16" 2.3/4"	22216K	HA 316 HE 316 H 316	196	152	110	110	25	19	5/8"	86	31	9,5
HFR 174 HFR 175 HFR 17 HFR 170	75	2.7/8" 2.15/16" 3"	22217K	HS 317 HA 317 H 317 HE 317	210	170	120	115	25	19	5/8"	89	30	12
HFR 18 HFR 183 HFR 184	80	3.3/16" 3.1/4"	22218K	H 318 HA 318 HE 318	210	170	118	120	25	19	5/8"	93	30	13,5
HFR 207 HFR 208 HFR 20 HFR 200	90	3.7/16" 3.1/2" 3.5/8"	22220K	HA 320 HE 320 H 320 HS 320	250	198	127	130	30	22	3/4"	101	30	22
HFR 224 HFR 22 HFR 225 HFR 220	100	3.7/8" 3.15/16" 4"	22222K	HS 322 H 322 HA322 HE322	270	219	129	140	30	22	3/4"	112	33	25

HEC





LC - Non-locating bearing, blind shaft

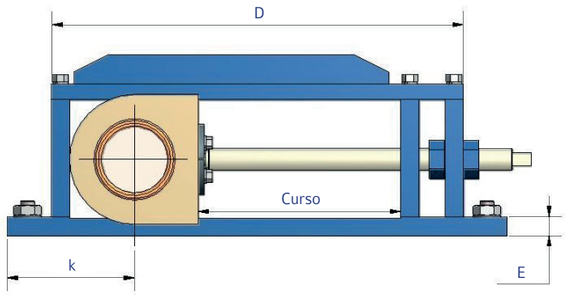
LP - Non-locating bearing, passing shaft

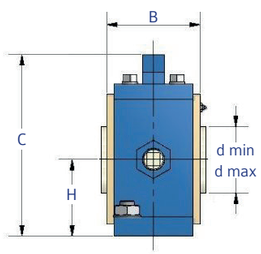
- See page 14 for technical features.
- Standard seal "TC" – felt strip, see page 04.
- Split bushing made of SAE 67 bronze.
- Specification example: HEC I 135mm, 135mm side covers, for passing shaft.

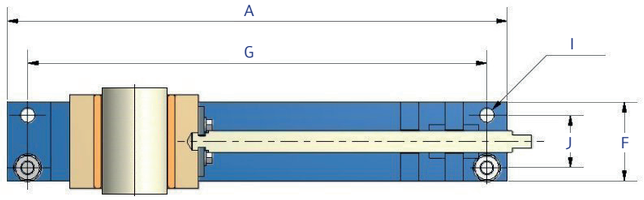
Obs: If the shaft has a different radius than those displayed on column R of the table below.

Hpusing	H	E	A	B	F	FI	L	P	I	D	G	V	R	Shaft (d)	
														min	max
HEC-0	94	305	360	130	80	*	192	190	22	255	140	38	4	76,2	114,3
HEC-1	128	400	470	180	100	*	252	253	28,6	313	200	55	6	127	152,4
HEC-2	170	410	530	240	160	*	302	365	31,7	435	250	70	8	165,1	190,5
HEC-3	195	510	640	310	200	100	372	405	38,1	525	320	65	8	203,2	254

HF







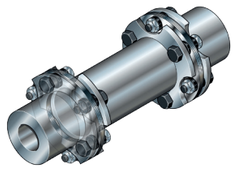
- See page 14 for technical features.
- Split bushing made of SAE 67 bronze.
- Specification example: HF I 63,5mm.

Housing	A	B	C	D	E	F	G	H	I	J	K	Shaft (d)		Travel
												min	max	
HF-1	590	80	186	450	19	59	520	73	17,5	.	155,2	38,1	63,5	200
HF-2	775	127	256	633	25	100	725	102	20,6	60	185,4	76,2	101,6	300
HF-3	855	200	312	705	33,1	160	785	131	25,4	90	218,3	114,3	139,7	320
HF-4	1000	230	400	814	38,1	170	920	170	28,6	110	285	165,1	190,5	328

NOTES

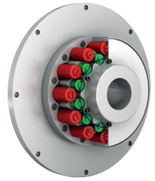
NOTES

OTHER PRODUCTS



Metal Disc Couplings

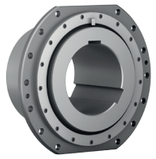
Elastic Couplings with Axial Pin



Highly Flexible Couplings

Gear Couplings

Flange Couplings



Barrel Couplings

Elastic Couplings

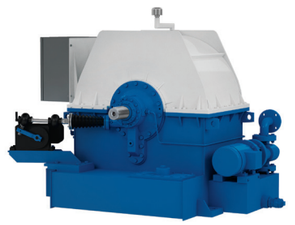
Split Elastic Couplings

Hydrodynamic Couplings

Shrink Discs

Locking Assemblies

Friction Springs



Variable Speed Hydrodynamic Couplings

Bearing Housings

Partner for Performance

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HSBP, HSBM, HSBP 30K AND HSBM 30K

These series are versatile and robust, therefore, they present many advantages that should be considered:

- Easy to assemble the seal;
- Flexibility: the seal can be easily changed or replaced by acquiring new side covers with the desired seal;
- Sealing elements (labyrinth, gasket, retainers) are interchangeable between these series;
- Up to size 32 (22208K to 22232K), the same side cover is used;
- The constructive form is easily changed by replacing the side covers and/or locking rings;
- Enables safety stock reduction;
- Easily adapted to house split bearings by changing the lateral covers.

Partner for Performance

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