



FAG Split Cylindrical Roller Bearings

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FAG Split Cylindrical Roller Bearings

FAG split cylindrical roller bearing

FAG split cylindrical roller bearings combine the features of conventional anti-friction cylindrical roller bearings with the added benefit of being easily assembled around a shaft. The complete assembly is engineered and manufactured in halves, with the results being ease of installation and inspection with minimal to no disturbance of other elements of a machine. The risk of adjacent equipment damage or re-alignment is eliminated as they are not disturbed. Readily available, simple, and inexpensive hand tools are all that is required to install FAG split bearings.

Machine design can be made more efficient and focused on objectives without having to accommodate bearings with more difficult replacement requirements. Standard straight shafting can be used – eliminating the costs of special machining, tools, and procedures often associated with solid bearings.

Maintenance, downtime, and lost production costs are greatly reduced for the entire life cycle of your machines. This reduced cost and savings by utilizing FAG split cylindrical roller bearings is transferred directly to your bottom line.

The design, quality of materials, and manufacturing process of FAG split cylindrical roller bearings are such that reliability and long life are assured. The mechanics' personal safety is greatly improved for the same reasons.

All FAG split cylindrical roller bearings are available in metric as well as inch bore. Special and one-off sizes are available with fast turnaround.

FAG split cylindrical roller bearing advantages

- Split to the shaft construction – ease of installation and maintenance.
- Self-Aligning – the bearing cartridge and housing externally handle $\pm 3^\circ$ of misalignment.
- Manufactured of through hardened bearing steel (rollers, inner and outer races).
- Ductile iron standard – Cartridges, pedestal, and flange housings machined from high strength 65-45-12 ductile iron, steel available upon request.
- Powder coated finish – (baked on) cartridge and housing.
- Drain plugs – on cartridges to allow purging of grease.
- Socket head hardware – SAE standard, grade 8.
- Aluminum triple labyrinth seals – Featuring dovetail groove design to fully retain the O ring material, allowing the seal to rotate with shaft to avoid shaft wear.
- Patented roller cage – Small sizes feature a zinc alloy cage design. The roller cage has cylindrical pockets that encapsulate the roller and maintain an even spacing between rollers. A cylindrical tongue and groove is used at the joint of the cage and is held together with a metal spring clip – when assembled the cage performs as a one piece cage.
- Bronze roller cages – from 4" and up in the S1 series, and all S2 series made from bronze material. The cages are assembled with a bolted lap joint, and utilize high tensile Nylock screws.
- Float (expansion) and held (non-expansion) bearing designs available.
- Three progressively heavier design series – S1, S2, and S3 series to best suit load, life, and speed requirements.
- Most sizes available from stock for immediate shipment – Normal inch sizes ($1\frac{7}{16}$ " to 12") and metric (40 mm to 300 mm). Larger sizes, to 32", and special designs available upon request.
- Cylindrical Bore Bearings – standard shafting can be used, greatly reducing costs in machine design, build, and maintenance.
- Custom Work – special application bearings, housings and cartridges available upon request.

FAG Split Cylindrical Roller Bearings

Proven solutions	FAG split cylindrical roller bearings have been solving the problems of even the most extreme applications, where high reliability under harsh conditions, minimum maintenance and down time is critical. The following represents typical applications and industries where FAG split cylindrical roller bearings can be a benefit to your bottom line.
Mining, aggregate, asphalt and ready mix	Cleaning, processing, general mineral extraction – fans, conveyors, bucket elevators, mine hoist gearing, crushers and pulverizers, flotation cells, ball and rod mills, pug mills, cage mills, hammer mills, reciprocating screens, gen sets and others.
Coke, iron and steel	Coal crushers, drag conveyors, roll out tables, cooling beds, transfer beds, mill drives, overhead cranes, bag house fans, primary air fans, charging car conveyors and others.
Cement production	Clinker crushers, clinker coolers, conveyors, fans (bag house, kilns and others), bucket elevators, ball and rod mills.
Marine	Fans, propulsion shafting, thrusters, gearboxes, winches, and on board conveyors.
Sugar, beet and cane	Cane knives, carriers and feeders, shredders, crushers, belt conveyors, line shafts, washers, fans, press rolls, pulp shredders, and bucket elevators.
Grain processing, flour mills and foods	Line shafting, fans, bucket elevators, other conveyor types, man lift, dewatering presses, tube bundle and other rotary dryers, rotary cookers and others.
Large electric motors	Large electric motors (mill drives and others) and generator sets for auxiliary or emergency power.
Pulp and paper	Mixers, conveyors, agitators, fans, log decks, chip conveyors, wood hogs, calendar and press rolls, paper drying cylinders, re-winders, line shafting, and pulp washers.
Lumber	Dry kilns and OSB ovens, log decks, chain and belt conveyors, fans, wood hogs, grinders and others – in dimensional lumber, chipboard, OSB, and plywood veneer plants.
Power generation	Ball Mills, FD and ID fans, belt conveyors, barge unloaders, crushers, pulverizers, damper doors, coal breakers, generator sets, pumps, water inlet screens, motor generator sets, horizontal and vertical hydro electric generators.
Water and wastewater treatment	Paddle wheel and rocker arm mechanical flocculators, rotary and disc aerators, RBC's, CBC's, tank scrapers, rotary and bar screens, collectors, sludge presses, skimmers, conveyors, fans, pumps, drum screens and others.
Chemical, pharmaceutical, petro-chemical and others	Fin fans, air handlers, pumps, line shafts, conical, vee, and double cone dryers, vacuum dryers, ribbon and paddle blenders, and others.

Features

The complete bearing housing assembly consists of:

- The pedestal or flange housing units which support the cartridge and holds cartridge and bearing assembly in the correct position and height.
- The cartridge which contains the bearing assembly and seals.
- The seals which protect the bearing from dirt and contaminants.
- The bearing assembly:
 - The inner race.
 - The clamp collars that hold the inner race halves in place.
 - The roller cage with rollers.
 - The outer race.

The bearing assembly

The rollers, inner race, and outer race are made from through-hardened bearing steel.

With FAG's standard through hardening practices, this high carbon chrome, low alloy steel provides excellent load bearing strength and wear characteristics, and an inherent ability to withstand impact load conditions.

Clamp collars

The clamp collars are made from various mild steels – dependent upon bearing size and series. The materials used are chosen for their ability to be hardened yet retain the ductility required for the repetitive stresses involved with dynamic and constantly varying loads, for millions of stress cycles. The clamp collars' seat serves two purposes, to lock the inner race to the shaft and to guide the rollers along the inner race.

Roller cage assembly

In the S1 series, up to 3¹/₂" bore, the standard roller cage is produced from a zinc-aluminum alloy material which offers desired high lubricity and stiffness qualities. The cage joints are of tongue and groove design and spring steel cage clips are supplied to fasten the cage halves together at installation.

FAG roller cages 4" bore and over in S1 series, and in all S2 and S3 series bearings, are made from bronze material. Cage joining faces are made with a special "Z" shaped cut to create an overlapping design. The cage halves are secured by counter sunk high tensile socket cap screws, and they come with a thread-locking compound built into the screw that ensures retention of the screws for the life of the bearing.

All of FAG's roller cages are designed with cage pockets to encapsulate the rollers to retain lubricant and ensure accurate roller guidance while possessing extremely low wear characteristics. Once the cage halves are mated and secured around the inner race, the units perform similar to a solid roller cage.

FAG Split Cylindrical Roller Bearings

Triple labyrinth seals	<p>FAG's aluminum triple labyrinth (ATL) seals are produced from marine, or aircraft grade aluminum. The seal bore is machined to accept and retain a double row of molded O ring material. This provides a seal between the shaft and the bore, as well as allows for shaft movement for expansion and contraction during operation without compromising the seal. By design, the seals rotate with the shaft – this prevents shaft wear at the seal/shaft mating seat, ensuring long life and full sealing capability.</p> <p>Standard O ring material is buna nitrile. For high temperature applications, FKM O rings are recommended and are automatically included when C3 or C5 clearance is specified. FAG can provide seals made from other materials such as UHMW, bronze or stainless steel upon request.</p>
Cartridges and housings	<p>FAG's cartridges and housings are made of ductile iron material as standard. Ductile iron provides the attributes of cast steel – high load, superior shock and wear resistance, and low and high temperature endurance. FAG's ductile iron components are protected with a powder coating finish as standard. Other coating types are available.</p> <p>Cast steel housing and cartridge material is also available for special applications.</p> <p>Bearing cartridges are designed to provide a rigid mounting for the bearings and seals which protect the bearing from contaminants. The labyrinths machined into the cartridges accept the seal outer diameter labyrinths, and are lubricated with grease to further enhance sealing capability.</p> <p>Bearing housings are designed for multiple mounting configurations. The pedestal housing is for mounting on a surface parallel to the shaft. The flange housing is for mounting on a surface perpendicular to the shaft. Both are designed for ease of installation and alignment of shaft and equipment. In addition to the standard sizes in stock, special sizes and housings are available to satisfy the customer's special needs.</p>
Cartridge and housing self alignment	<p>A major cause of premature bearing failure is misalignment which can be caused by misalignment at installation, machine movement, temperature changes, and other factors. The inside diameter of the housings are spherically machined to match the spherical outside of the cartridge assembly. When the parts are mounted as an assembly, the classic ball and socket is formed. This design provides a true self-aligning capability, with FAG's housed units being capable of providing 3° per side.</p> <p>To properly facilitate the ball and socket design, the machined surfaces are lubricated at assembly with an anti-seize or moly based compound that serves to both lubricate and protect the machined surfaces in operation. Since the complete bearing assembly is within the cartridge, this allows the bearing and seals to properly align with the shaft, thus allowing the bearing to perform optimally. As a result, the design has addressed two major causes of bearing failure, misalignment, and contamination.</p>
Fasteners	<p>Grade 8, high tensile steel alloy (hardened and tempered) "Allen" head fasteners are used in FAG bearings. SAE threads are standard. Metric fasteners are available upon request. Stainless steel fasteners (external) are also available upon request. Fastener sizes, strengths, and torque specifications are in the charts provided herein.</p>

Two types of bearings

FAG split cylindrical roller bearings, in all shaft sizes and series, are manufactured in two types – held and float (fixed and expansion). They are manufactured as separate bearings to solve the problem of some applications needing to allow for shaft axial movement (parallel to the shaft axis) and others needing to be able to hold the shaft in a fixed axial position.

Held bearing (HD)

The held bearing accepts both radial (perpendicular to the shaft axis) and axial (parallel to the shaft axis) loads. The main purpose of the held bearing is to “anchor” a shaft in position, to prevent shaft drift during operation, and absorb thrust or “side” load imposed by the equipment in operation. The held bearing is normally mounted on the drive side, or drive end of a piece of equipment, directing shaft expansion away from the drive. In applications where a high thrust load is expected or realized, please contact FAG engineering for advice on proper bearing selection.

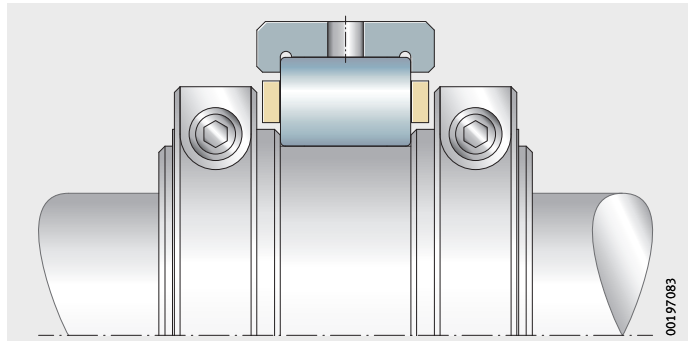


Figure 1
Held bearing

Float bearing (FL)

The float or “expansion” bearing is designed to accommodate radial (perpendicular) load only. It is designed to allow for thermal growth of a shaft during operation. The floating bearing is normally mounted opposite the drive end of a shaft and used in conjunction with a held or fixed bearing when both bearings are mounted on a common shaft section. In most applications, one of each type bearing is mounted to each solid shaft section. In the instance of long line shafting, one held bearing is normally used with the rest being floating type. Exact placement of the bearings can vary.

When using both floating and held type FAG bearings in an application, be sure to maintain individual bearing components of each type separately as they are shipped. Bearing parts are not interchangeable, and individual bearing components are matched for proper internal clearance and fit. Mixing components during installation may cause less than desirable performance or premature failure.

FAG Split Cylindrical Roller Bearings

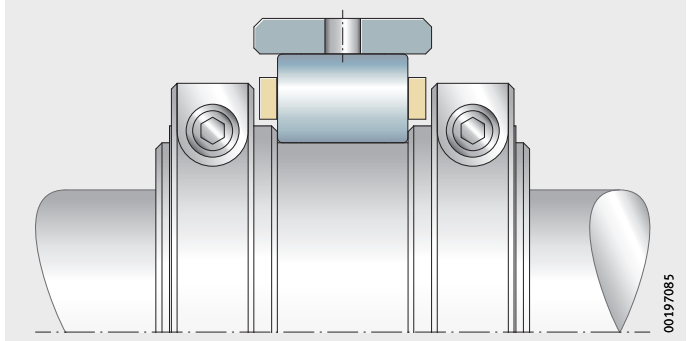


Figure 2
Float bearing

Stocking items and special orders

FAG Bearing makes a standard duty (S1 series), heavy duty (S2 series), and an extra heavy duty (S3 series) bearings. Bearings from 1¹/₂" to 12" (or equivalent metric size) are standard stocking items. Larger bearings are often in stock, but special orders can quickly be provided for bearings up to 32".

Design and safety guidelines

Shaft size and tolerance

FAG split cylindrical roller bearings are designed and manufactured to a close tolerance. Over time, actual shaft diameter in the field can vary by as much as a few thousandths of an inch in different bearing positions on a single shaft. Shaft to bearing fit becomes more critical as load and/or speed increases. Before mounting a bearing, the journal should be checked for diameter, roundness, taper, and conformity to a straight edge. Roundness and taper should be held within $0.001''$ along the length and diameter of the bearing seat. The higher the operating speed, the tighter the shaft tolerance should be.

For an engineered component such as a roller bearing, shaft tolerance and condition are extremely important. A bearing is no better than the shaft on which it is assembled. Therefore, shaft condition directly affects bearing performance and life.

Tolerances

The tolerance of the shaft is based on the value dn . The value dn is calculated from the diameter in inches and the speed:

$$dn = d \cdot n$$

dn	–
Value	
d	''
Shaft diameter	
n	min^{-1} (rpm)
Speed	

Shaft tolerances

Value dn		Tolerance	
		''	
from	to	over	incl.
0	2 000	-0.004	$+0.000$
2 000	4 000	-0.003	$+0.000$
4 000	6 000	-0.002	$+0.000$
6 000	8 000	-0.001	$+0.000$
8 000	–	-0.0005	$+0.000$

FAG's tolerances for shaft fit are within the generally accepted ABMA or ISO norms of all rolling element bearings, with due respect given for speed capability and uniqueness of design.

Product dimensions

In ordering a bearing for a particular application, it may be necessary to know the bearing dimensions (height, width, length).

Additionally, the expected load and speed of the application determines the bearing series needed (S1, S2, or S3). The Bearing Dimension section, starting on page 34, provides dynamic, static, and axial load ratings and maximum speed for each bearing size and series.

FAG Split Cylindrical Roller Bearings

Bearing life All calculations to determine the load carrying capacities of the FAG split cylindrical roller bearing are based on and in accordance with ABMA and International Organization for Standardization (ISO) standards. Bearing life is a fatigue calculation that estimates the ability of a bearing to carry a load, commonly known as L_{10} . The L_{10} is the basic life rating of a bearing, generally given in hours or millions of revolutions, and is the minimum expected life for 90% of a group of like bearings. Median life is where 50% of the group will complete or exceed the life rating, and is approximately five times the life rating.

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

$$L_{10h} = \frac{16\,666}{n} \cdot \left(\frac{C}{P}\right)^p$$

L_{10} 10^6
 Basic life rating in millions of revolutions
 C N (lbs)
 Basic dynamic load rating
 P N (lbs)
 Dynamic equivalent radial load

Important:
 The equation is valid for both lbs and N,
 provided the units for P and C are consistent

p –
 Exponent of life equation = $10/3$
 L_{10h} h
 Basic life rating in hours
 n min^{-1} (rpm)
 Shaft revolutions

Nomenclature breakdown

In order to simplify bearing size and part identification, all numbers and letters in part numbers have a specific descriptive meaning.

Nomenclature		Example
Inch bore sizes	Are in one inch increments plus the number of sixteenth of an inch. The first one or two numbers are the whole inch and the last two are the number of sixteenth.	203 = $2\frac{3}{16}$ " 900 = 9" 1208 = $12\frac{8}{16}$ " ($12\frac{1}{2}$ ")
Metric bore sizes	Are indicated by the number of millimeters followed by the letters "mm"	S1BCH- 100mm -HD S1BCH- 75mm -FL
S1 S2 S3 S4	Medium Duty Heavy duty Extra heavy duty Special duty	S1 BCH-312-FL S1 BCF-403-HD S3 BC-1100-FL S4 BCH-307-HD
B	Bearing (only) (one split inner race, two split clamp collars, one split roller cage assembly, one split outer race)	S1B -207-FL
C	Cartridge (only) for held or floating bearing type	S1C -500 S2C -308
PH	Pedestal housing (only) for held or floating bearing type	PH -4 PH -15
FH	Flange housing (only) for held or floating bearing type	FH -4 FH -15
BC	Bearing-cartridge w/seals (a replacement "insert")	S1BC -203-FL S2BC -315-HD
BCH	Complete pillow block (bearing-cartridge w/seals and pedestal housing)	S1BCH -515-FL S2BCH -515-HD
BCF	Complete flange block (bearing-cartridge w/seals and flange housing)	S1BCF -315-FL S2BCF -800-HD
FL	Floating (expansion) type bearing	S1BCH -207- FL S2BCF -415- FL
HD	Held (fixed or non-expansion) type bearing	S1BCH -207- HD S2BCF -415- HD
ATL	Aluminum triple labyrinth seals – two seals per unit (split)	ATL -407 ATL -200mm
UHMWTL	Triple labyrinth seals	UHMWTL -500
C2	Less than normal internal clearance (reciprocating loads – crank shafts, etc.)	S2B-307-FL- C2
C3, C5	Greater than normal internal clearance normally used in high temperature applications, above +200 °F use C3 and above +340 °F use C5	S1BCH-607-HD- C3
without C	If no identifier is provided then a C-Normal running clearance will be provided	–
XX	Letter, or number and letter suffix – added to identify special modifications to suit a particular customer's needs, or a special application	S1BCH-507-FL- XX
2B	Complete pillow block with 2 bolt base for sizes where 4 bolt is standard S1 series: 303 – 400 ($3\frac{3}{16}$ " – 4"), 80 mm – 105 mm S2 series: 211 – 308 ($3\frac{3}{16}$ " – $3\frac{1}{2}$ "), 70 mm – 90 mm	–

FAG Split Cylindrical Roller Bearings

Lubrication	<p>The main purpose of lubricating a bearing is to coat the rolling contact and load bearing surfaces with a lubricant, minimizing direct metal-to-metal contact. This accomplishes the following:</p> <ul style="list-style-type: none">■ Reduces heat, friction and abrasion, prolonging useful life.■ Transports heat away from the load zone (oil).■ Slows or prevents corrosion.■ Helps reduce the ingress of foreign matter into the bearing (grease). <p>Proper lubrication during assembly is critical. Please refer to the assembly instructions for lubrication requirements when assembling bearings. Proper lubrication during operation is also critical. The type and quantity of lubrication depends on the application – the load, speed, and temperature all affect the needed lubrication. The majority (about 90%) of rolling element bearings are grease lubricated. Oil is generally utilized in high speed and high temperature applications.</p>
Oil	<p>When necessary (dn above 8 000), oil can be pumped, drained, filtered, cooled and recirculated. This is very effective in removing heat buildup, prolonging both bearing and lubricant life. Various types of oil lubrication delivery methods are available, such as static, constant level oilers, re-circulating, and oil mist delivery systems. Various additives are available to improve resistance to thinning, oxidation resistance, corrosion resistance, foaming resistance, extreme pressure properties, et cetera. Consult with a reputable supplier of oil and grease products to better choose the right lubricating oil for a particular application.</p>
Grease	
Typ of grease	<p>Greases In order to achieve a long operating life and high operational security of the bearing arrangement, we recommend the use of Arcanol rolling bearing greases. These have been designed and tested for bearing arrangement engineering.</p>
Further information	<ul style="list-style-type: none">■ TPI 168, Arcanol Rolling Bearing Greases ➤ https://www.schaeffler.de/std/1F66■ TPI 176, Lubrication of Rolling Bearings ➤ https://www.schaeffler.de/std/1F83
Do not mix greases	<p>The variations in additives between brands and types may cause problems.</p>

Quantity of grease More bearings fail prematurely from over greasing than from grease starvation. How much grease is required in a bearing depends mainly on speed. The amount of grease to satisfy the needs of particular sizes and series of FAG bearings is based on the dn value, the product of which is expressed as a percentage of a full pack of grease. A full pack chart for various sizes follows this section. As used herein, $dn = d$ (shaft diameter in inches) \times n (shaft speed in revolutions per minute).

Value dn		Percent of full pack
from	to	%
0	2 000	100
2 000	4 000	75
4 000	6 000	50
6 000	8 000	33
8 000	–	25 (synthetic grease or oil)

- Examples**
- A $3\frac{7}{16}$ " bearing rotating $1\,400\text{ min}^{-1}$ (rpm) has a $dn = 4\,813$ ($3.4375 \times 1\,400$), use 50% pack.
 - A $4\frac{15}{16}$ " bearing rotating $1\,400\text{ min}^{-1}$ (rpm) has a $dn = 6\,913$ ($4.9375 \times 1\,400$), use 33% pack.
 - A 65 mm bearing rotating $1\,400\text{ min}^{-1}$ (rpm) has a $dn = 3\,583$ ($2.5591 \times 1\,400$), use 75% pack.
 - A 100 mm bearing rotating $1\,400\text{ min}^{-1}$ (rpm) has a $dn = 5\,112$ ($3.9371 \times 1\,400$), use 50% pack.

dn above 8 000 For a dn value above 8 000 oil lubrication or a synthetic grease is usually recommended. At very high speeds, oil is better suited than grease, and can be used to remove heat buildup in a bearing. For very low speeds or heavy loads, or very high speeds, contact Schaeffler.

Grease fill capacity Following is a chart showing the amount of grease it takes to fully pack individual FAG bearings. The chart is divided into group sizes, by series. For larger sizes not shown, or special bearings, consult our technical department. Use the dn chart above to calculate the actual percentage of full pack to apply to your application.

FAG Split Cylindrical Roller Bearings

Grease fill capacity

Series	Group	Full pack amount	
		lbs	g
108	S1	0.1	57
200	S1	0.2	85
208	S1	0.3	150
	S2	0.5	213
300	S1	0.4	179
	S2	0.7	298
308	S1	0.7	298
	S2	1	454
400	S1	0.8	360
	S2	1.5	680
408	S1	0.9	408
	S2	2	907
500	S1	1	454
	S2	2.6	1 179
508	S1	1.5	680
	S2	3.1	1 406
600	S1	1.8	817
	S2	3.2	1 452
	S3	5.5	2 495
608	S1	2	907
	S2	3.2	1 452
	S3	8	3 629
700	S1	2.4	1 089
	S2	4.4	1 996
	S3	9	4 082
800	S1	3	1 361
	S2	6	2 722
	S3	12.1	5 489
900	S1	3.1	1 406
	S2	8	3 629
	S3	15.5	7 031
1000	S1	4.2	1 905
	S2	9	4 082
	S3	17.5	7 938
1100	S1	4.2	1 905
	S2	10.5	4 763
	S3	21	9 525

continued ▼

Grease fill capacity

Series	Group	Full pack amount	
		lbs	g
1200	S1	4.4	1 996
	S2	12	5 443
	S3	23.9	10 841
1300	S1	6	2 722
	S2	16	7 258
	S3	26.5	12 020
1400	S1	6.7	3 039
	S2	15.9	7 212
	S3	33.5	15 195
1500	S1	7	3 175
	S2	17	7 711
	S3	35.5	16 103
1600	S1	8	3 629
	S2	20	9 072

continued ▲

Grease compatibility

A significant portion of grease lubrication failures can be attributed to mixing greases in a system without taking into consideration compatibility. Different thickener systems can react with each other to modify the physical and chemical structure resulting in the inability to hold or release the base oil. The end result is grease with unknown performance properties including load, shear, temperature stability, et cetera.

Many factors including environment can impact this reaction. An example is grease used in a cold climate or a chiller room may have a slower reaction rate as compared to a high temperature application. A high-speed bearing may be very sensitive to slight incompatibility as compared to a low speed bearing. Refer to the grease compatibility table below.

Grease incompatibility is due to the additives and base oil, so when changing from one grease system to another, the component should be cleaned if at all possible. If this is not possible, verify the greases are compatible and make an assessment of the application criticality and environment. If the grease thickener and base oil is noted to be compatible, purge or flush out as much of the old grease as possible. It is the end user's responsibility to verify the final application and product compatibility. Use caution as to not over grease.

Miscibility of base oils

	Mineral oil	PAO	Ester oil	Polyglycol oil	Silicone oil	Alkoxyfluoro oil
Mineral oil	+	+	+	-	o	-
PAO	+	+	+	-	o	-
Ester oil	+	+	+	o	-	-
Polyglycol oil	-	-	o	+	-	-
Silicone oil	o	o	-	-	+	-
Alkoxyfluoro oil	-	-	-	-	-	+

+ Mixing generally non-critical o Miscible in individual cases, but checking should be carried out - Mixing not permissible

FAG Split Cylindrical Roller Bearings

Compatibility of different thickener types

	Lithium soap	Lithium complex	Sodium complex	Calcium complex	Aluminium complex
Lithium soap	+	+	–	+	–
Lithium complex	+	+	o	+	o
Sodium complex	–	o	+	o	o
Calcium complex	+	+	o	+	o
Aluminium complex	–	o	o	o	+
Barium complex	+	o	o	o	o
Bentonite	–	–	–	o	–
Polycarbamide	–	o	o	o	–
PTFE	+	+	+	+	+

+ Mixing generally non-critical o Miscible in individual cases, but checking should be carried out – Mixing not permissible



Before mixing, the lubricant manufacturer must always be consulted. Even if the preconditions are fulfilled, the performance capability of the mixed grease may be impaired. Relubrication should only be carried out using greases of comparable performance capability. If a different grease grade is to be used, the previous grease must first be flushed out as far as this is permitted by the design. Further relubrication should be carried out after a shortened period. If incompatible greases are mixed, this can lead to considerable structural changes. Substantial softening of the grease mixture may also occur.

Friction reducing anti-seize compounds

An anti-seize compound must be used on the spherical of the cartridge and housing to assure continued self alignment and prevention of fretting corrosion – which is caused by two heavily loaded metal surfaces rubbing or vibrating against one another, resulting in the formation of rust. Anti-seize compounds are available as copper base or nickel base metallic type and PTFE based types. We recommend the mounting paste ARCANOL-MOUNTINGPASTE2 from Schaeffler. In marine applications, nickel based anti-seize is the most common type.

Regular maintenance

Due to the action of the rollers against the flanges of the clamp collars and the shoulders of the outer raceway, the held bearing requires more frequent lubrication than the float bearing. Held bearings should receive $\frac{1}{8}$ ounce (3.7 cm³) of grease every 250 hours of operation, or at two-week intervals. Float bearings should receive $\frac{1}{8}$ ounce (3.7 cm³) of grease every 500 hours of operation, or once a month.

As a general rule, non-synthetic greases should be cleaned out of the bearings and replenished with new grease annually. By utilizing synthetic grease, this time frame can be extended to three years, dependent on ambient conditions, severity of the application, and relubrication schedules.

End user knowledge and experience concerning actual conditions, loads, and speeds, should always be taken into consideration.

Installation guide for FAG split cylindrical roller bearings

- Micrometer to suit shaft size.
- Torque wrench.
- Anti-seize compound.
- Means to lift and safely support shaft during bearing installation.
- Rubber mallet.
- Slip joint pliers.
- Feeler gauge set.
- Strap wrench $1/8''$ diameter straight shank drift pin.
- Clean, lint free cloth.
- SAE Allen wrench set.
- Appropriate viscosity lubricant.

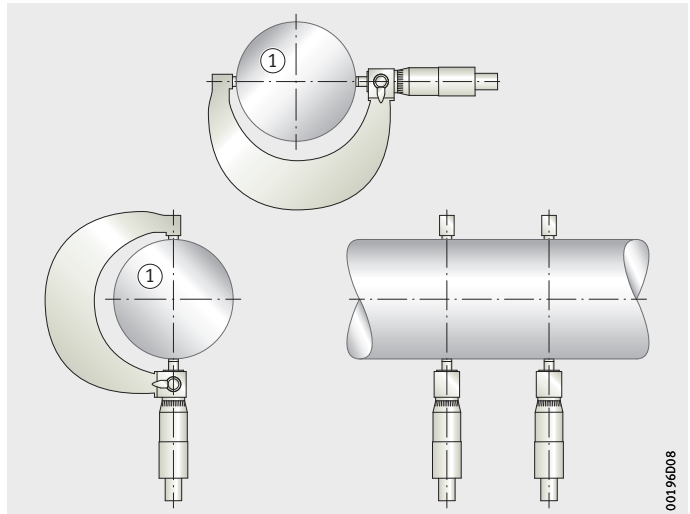
Check the shaft

Before mounting any components, the shaft should be checked at the intended location of the bearing for diameter, roundness, taper, and conformity to a straight edge. The tolerance of the shaft's diameter is $+0.000''$ to $-0.004''$, where the dn value $< 2\ 000$, and $+0.000''$ to $-0.002''$, where the dn value $> 2\ 000$.

The shaft's roundness and taper tolerance is $\pm 0.001''$ and the surface finish is to be $+125\ \mu\text{in}$ to $+63\ \mu\text{in}$. Remove any rust, nicks, burrs, high spots, and ensure that the shaft is clean and dry before mounting any components. Use the reference images below as a reference for how to check the shaft.

① Shaft

Figure 3
Check the shaft



FAG Split Cylindrical Roller Bearings

Bearing installation preparation

Individual bearing components should not be interchanged. The components of each bearing are matched at the factory for proper fit and internal clearance. To facilitate proper assembly, all FAG split cylindrical roller bearings are provided with match mark numbers at the mating faces of the individual components. Be sure to completely disassemble the bearing components, remove all protective plastic, and wipe the oil from all surfaces at installation.

The shaft should be raised and fully supported before installing the bearing. It is good practice to locate shaft position, and install the held (fixed) bearing first. This practice serves to anchor the shaft in position and facilitate proper positioning for the expansion bearing on the shaft.

Installing the triple labyrinth seals

For best results, install the seals first and slide them out of the way; one seal to the left of, the other seal to the right of, the inner race position on the shaft.

- ▶ Separate the seals by driving out the steel pins with the $1/8''$ diameter drift pin and pulling the seals apart by hand. Do not mix the two seals up.
- ▶ Lightly lubricate the seal bore between the O rings with grease.
- ▶ Assemble the seals around the shaft so that the marking and the seal bore size are on the same side and facing outward. This will allow for easy identification in the field.
- ▶ A strap wrench may be used to compress the seal together to re-install the steel pins. Use only enough pressure to bring the seal joint faces together. The steel pins can be squeezed back into place with a pair of channel lock pliers.

- ① Bore size
- ② Shaft
- ③ Triple labyrinth seal
- ④ Marking

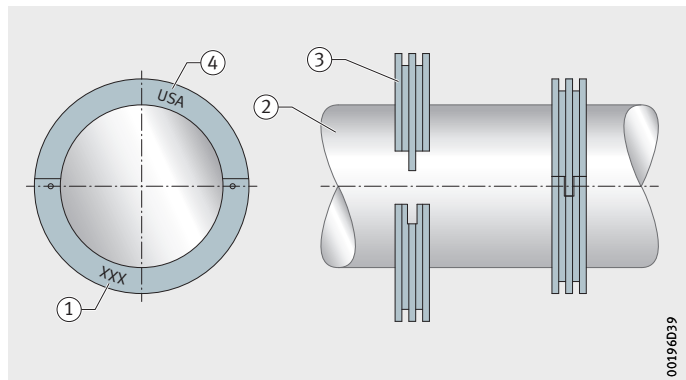


Figure 4

Installing the triple labyrinth seals

Installing the inner race with clamp collars

Check that the inner race and shaft are clean and dry.

NOTICE

Do not coat the shaft or bearing bore with oil or grease. The inner race should be dry fit to the shaft. ◀

- ▶ Observing the match mark numbers, place the inner race halves on the shaft in the desired position. Also note the black reference line in the clamp collar groove on one side. Assemble so the black reference line is continuous around one groove. Place the splits in a “north-south” (up-down position).
- ▶ Place a 0.015 " feeler gauge in the center of the bottom half of the split. This will prevent the gap from closing up when installing the clamp collars.
- ▶ Install clamp collars with match numbers facing outboard, both sides. Place a nonthreaded half of a clamp collar into one of the machined grooves of the inner race on the top, with its split line at the “east-west” position. The actual position should be between 45° and 90° to the split line of the inner race.
- ▶ Place the bottom half (threaded) of the same clamp collar into position and loosely install the collar locking bolts (fine thread). Repeat the same procedure for the other clamp collar.
- ▶ Re-check inner race position on the shaft before performing the tightening sequence. The race can be moved by tapping it along the shaft with a rubber mallet.

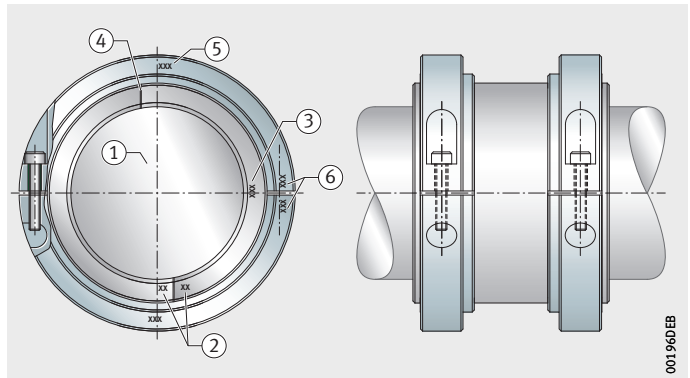
NOTICE

Do not strike the hardened surfaces of the bearing with a hard faced hammer. Permanent bearing damage can occur. ◀

- ▶ Maintain an equal gap at the joint face of the clamp collars when tightening. Judging the gaps of the clamp collars “by eye” will suffice.
- ▶ Tighten all clamp collar bolts using a “Z” pattern sequence. Be sure to remove the feeler gauge as necessary.

- ① Shaft
- ② Inner race match mark
- ③ Bore size
- ④ Gap ≈ 0.015 "
- ⑤ Clamp collar group size
- ⑥ Clamp collar match mark

Figure 5
Installing the inner race with clamp collars



FAG Split Cylindrical Roller Bearings

There will be gaps at the joint faces of the inner race and clamp collars after final tightening. The gaps are designed to be there, and will vary with shaft size and series of bearings. Provided the shaft is within tolerance, and the race is fully seated on the shaft, the final gap is irrelevant, as long as the gap is evenly split on the inner race halves. However, if there are no gaps at the joints, the shaft is undersized or the bearing bore is incorrect for the shaft. The bearing should not be run. Discontinue installation and recheck the shaft and bearing for matching size before proceeding.

Installing the roller cage assembly

- ▶ Wipe the inner race clean of dirt, fingerprints, et cetera. Apply a light coating of grease to the raceway area.
- ▶ Apply grease to the inner surface area of the roller cage unit. Rotate the rollers while applying grease to allow lubricant to enter the cage pockets.
- ▶ Place cage halves around the inner race. Install the cage clips or bolts with thread locking compound, depending on cage design. Tighten bolts securely.
- ▶ Lightly coat outer surface of roller and cage with grease. Protect from contamination.

- ① Shaft
- ② Joint
- ③ Roller cage assembly

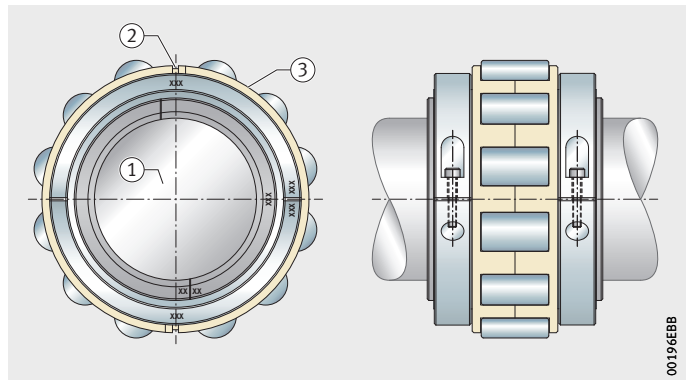
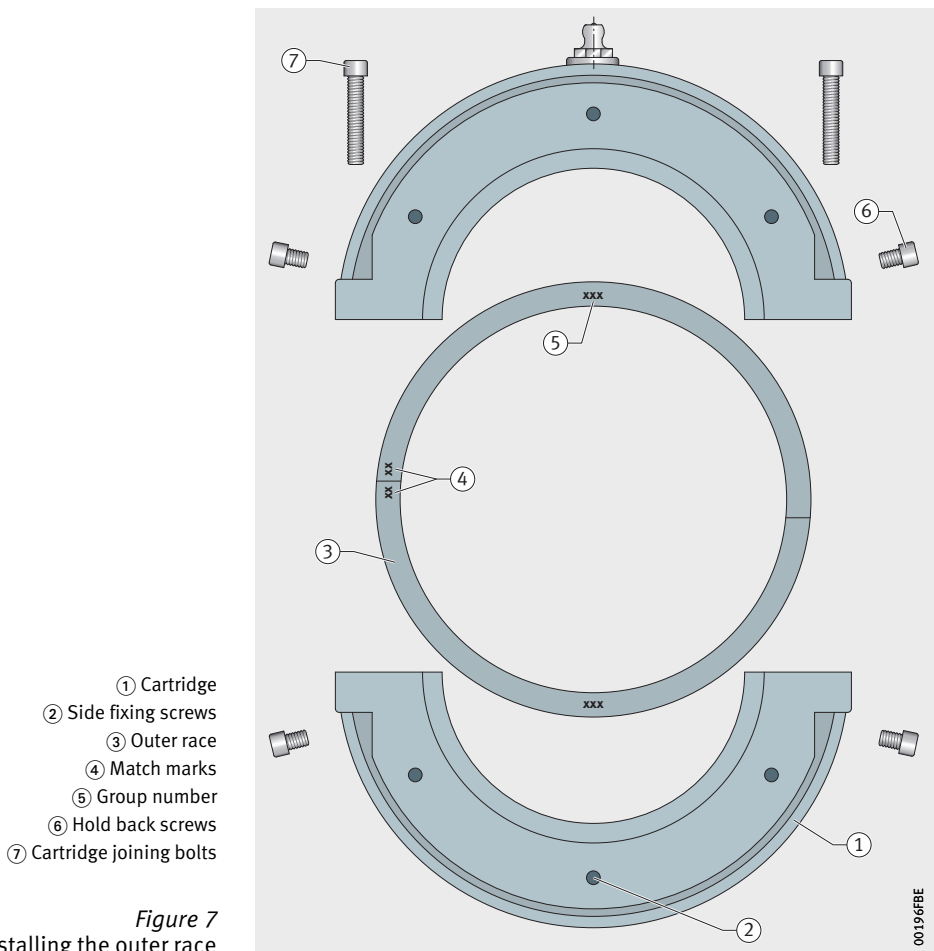


Figure 6
Installing the roller cage assembly

Installing the outer race

- ▶ Inspect and clean the bore of the cartridge for the outer race, and fill the grease groove in the center of the cartridge bore.
- ▶ Inspect and clean the outer race. Take note of the match marks at the joint, and the top half with the lubrication hole.
- ▶ Install the top half of the outer race into the top half of the cartridge. Press firmly into the cartridge bore. Then repeat for the bottom half. Make sure the outer race match marks line up, and that the outer race with the lubrication hole is in the cartridge half with the lubrication zerk fitting. If the bearing is a $6\frac{1}{2}$ " group size or greater, install the radial hold back screws, only finger tight.
- ▶ Place the two cartridge halves together. Install and tighten all four, coarse thread, joining bolts.
- ▶ Tighten each of the side fixing screws, in a star pattern, until they are snug. Inspect the outer race joints, ensuring that they are flush. Remove the four joining bolts.



FAG Split Cylindrical Roller Bearings

- Installing the cartridge**
- ▶ Apply grease (about $1/8$ " deep) to the interior of the cartridge bottom half. Grease the labyrinths of the cartridge. Slide the seals into position. Greasing the labyrinths serves to lubricate the seals and adds an additional grease barrier against contaminants.
 - ▶ Repeat the same procedure with the top half of the cartridge.
 - ▶ Place the cartridge halves together; install and tighten the cartridge joining bolts (course thread). Rotate cartridge in place to be sure it turns freely without binding. The anti-rotation pin in the top half of the cartridge mates into the housing cap.
 - ▶ Coat the spherical ball of the cartridge with a liberal amount of a quality moly or anti-seize compound. We recommend the mounting paste ARCANOL-MOUNTINGPASTE2 from Schaeffler. Be sure that the spherical ball is clean prior to lubricating. Do not use oil or grease for this purpose.

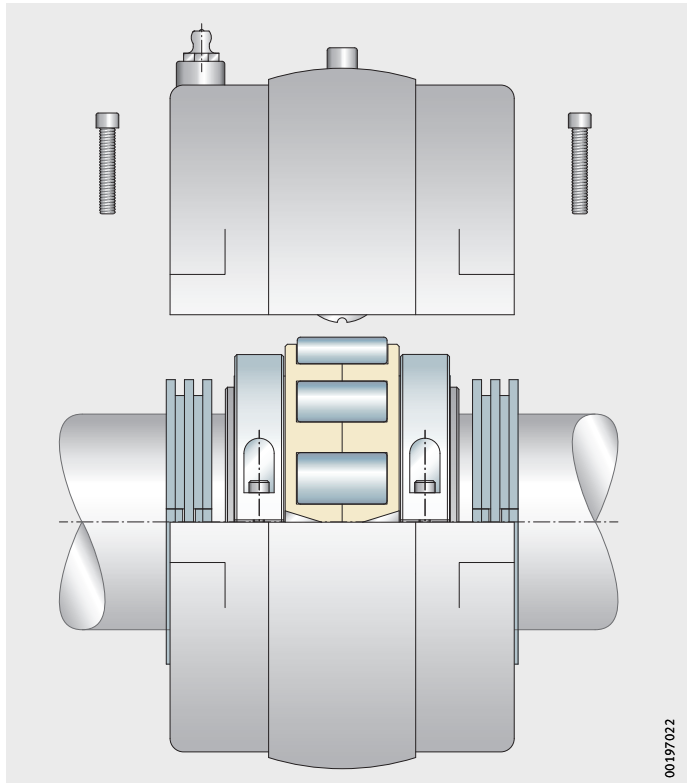


Figure 8
Installing the cartridge

Installing the pedestal housing

- ▶ Be sure the pedestal base mounting area is flat, clean, and free from burrs and nicks
- ▶ If shimming of the pedestal housing base is necessary for adjusting base to center height, Schaeffler recommends a full shim along the length and width of the housing base.
- ▶ Coat the pedestal housing base spherical area with an anti-seize compound. We recommend the mounting paste ARCANOL-MOUNTINGPASTE2 from Schaeffler. If not already in position, slide the base under the cartridge to its intended mounting position and loosely install the mounting bolts. With the anti-rotation pin on the cartridge properly located, slowly lower the shaft and allow the cartridge unit to settle in the base. When the bearing unit is properly positioned, tighten the mounting bolts.
- ▶ Place the pedestal housing cap in position. Install the bolts, but do not fully tighten. After installation of all bearings, rotate the shaft to allow the pillow blocks to align themselves with the shaft position. Tighten all cap bolts.
- ▶ Perform a visual inspection. Be sure the bearings are properly lubricated, and all bolts are fully tightened before placing machinery in service.

With floating (FL) type bearings, be sure the cartridge and pedestal housing have not been moved in relationship to center with the inner race position on the shaft. A re-positioning of the inner race may be necessary if this has occurred. Simply take the down weight off the bearing, slightly loosen the clamp collar bolts without removing them, and tap the inner race up or down the shaft to re-center. When the race is back in center position, re-tighten the clamp collar bolts, and lower the shaft.

If heat related axial growth of the shaft is anticipated, the float (FL) inner race can be offset toward the anticipated heat source to accommodate this growth.

- ① Housing base
- ② Match mark
- ③ Housing cap
- ④ Housing bolt

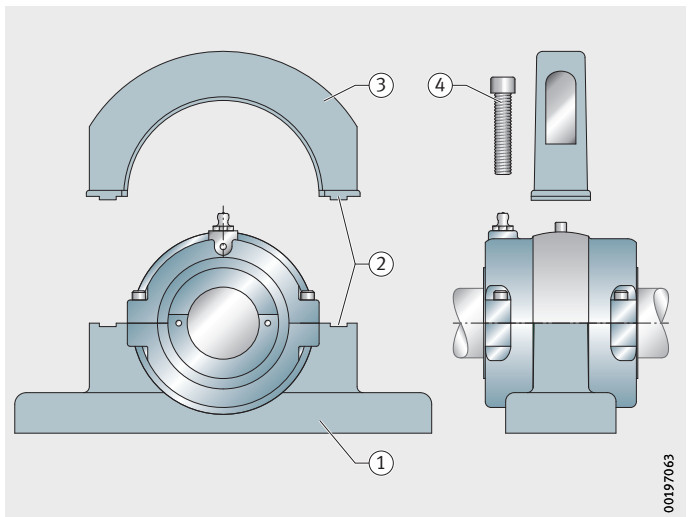


Figure 9
Installing the pedestal housing

FAG Split Cylindrical Roller Bearings

- Summary**
- ▶ Check shaft for size and condition. Clean up if necessary.
 - ▶ Separate and pair up bearing components, remove all protective plastic, and wipe dry of protective oil coating before installation.
 - ▶ Lubricate and install seals and move either side of bearing center position.
 - ▶ Install the inner race per instructions. Lubricate the raceway.
 - ▶ Lubricate and install roller cage assembly.
 - ▶ Lubricate grease groove and install outer race in the cartridge.
 - ▶ Apply grease to seal labyrinths in the cartridge and outer race track, then install the cartridge.
 - ▶ Lubricate cartridge spherical outside diameter with anti-seize compound.
We recommend the mounting paste ARCANOL-MOUNTINGPASTE2 from Schaeffler.
 - ▶ Install pedestal housing base. Lubricate housing spherical socket seat with anti-seize.
We recommend the mounting paste ARCANOL-MOUNTINGPASTE2 from Schaeffler.
 - ▶ Make sure housing base is fully supported along its width and length.
 - ▶ Rotate the shaft and allow bearing(s) to align before final tightening of pedestal housing cap.
 - ▶ Perform a visual inspection of the installation, being sure all bolts are fully tightened before placing machinery in service.
 - ▶ Never install any rolling element bearing dry and lubricate after assembly. Always lubricate during assembly.

FAG Split Cylindrical Roller Bearings

Torque specifications

Series	Group	Clamp collar		
		Bolt	Hex key size	Torque
				ft-lbs (in-lbs)
S1	108	#10" – 32 UNF	5/32	3.1 (32.2)
S1	200	#10" – 32 UNF	5/32	3.1 (32.2)
S1	208	#10" – 32 UNF	5/32	3.1 (32.2)
S2	208	1/4" – 28 UNF	3/16	7.5 (90)
S1	300	#10" – 32 UNF	5/32	3.1 (32.2)
S2	300	1/4" – 28 UNF	3/16	7.5 (90)
S1	308	1/4" – 28 UNF	3/16	7.5 (90)
S2	308	1/4" – 28 UNF	3/16	7.5 (90)
S1	400	1/4" – 28 UNF	3/16	7.5 (90)
S2	400	1/4" – 28 UNF	3/16	7.5 (90)
S1	408	1/4" – 28 UNF	3/16	7.5 (90)
S2	408	5/16" – 24 UNF	1/4	15 (180)
S1	500	1/4" – 28 UNF	3/16	7.5 (90)
S2	500	3/8" – 24 UNF	5/16	27
S1	508	5/16" – 24 UNF	1/4	15 (180)
S2	508	3/8" – 24 UNF	5/16	27
S1	600	5/16" – 24 UNF	1/4	15 (180)
S2	600	3/8" – 24 UNF	5/16	27
S3	600	3/8" – 24 UNF	5/16	27
S1	608	3/8" – 24 UNF	5/16	27
S2	608	3/8" – 24 UNF	5/16	27
S3	608	1/2" – 20 UNF	3/8	66
S1	700	3/8" – 24 UNF	5/16	27
S2	700	3/8" – 24 UNF	5/16	27
S3	700	1/2" – 20 UNF	3/8	66
S1	800	3/8" – 24 UNF	5/16	27
S2	800	1/2" – 20 UNF	3/8	66
S3	800	1/2" – 20 UNF	3/8	66
S1	900	3/8" – 24 UNF	5/16	27
S2	900	1/2" – 20 UNF	3/8	66
S3	900	5/8" – 18 UNF	1/2	133

Cartridge			Pedestal housing cap			Flange housing		
Bolt	Hex key size	Torque	Bolt	Hex key size	Torque	Bolt	Hex key size	Torque
		ft-lbs (in-lbs)			ft-lbs (in-lbs)			ft-lbs (in-lbs)
#10" – 24 UNC	5/32	2.8 (33.6)	5/16" – 18 UNC	1/4	14 (168)	–	–	–
#10" – 24 UNC	5/32	2.8 (33.6)	5/16" – 18 UNC	1/4	14 (168)	5/16" – 18 UNC	1/4	14 (168)
10" – 24 UNC	5/32	2.8 (33.6)	3/8" – 16 UNC	5/16	24	3/8" – 16 UNC	5/16	24
#5/16" – 18 UNC	1/4	14 (168)	7/16" – 14 UNC	3/8	39	7/16" – 14 UNC	3/8	39
10" – 24 UNC	5/32	2.8 (33.6)	7/16" – 14 UNC	3/8	39	7/16" – 14 UNC	3/8	39
5/16" – 18 UNC	1/4	14 (168)	5/8" – 11 UNC	1/2	120	1/2" – 13 UNC	3/8	68
1/4" – 20 UNC	3/16	6.6 (79.2)	5/8" – 11 UNC	1/2	120	1/2" – 13 UNC	3/8	68
5/16" – 18 UNC	1/4	14 (168)	5/8" – 11 UNC	1/2	120	1/2" – 13 UNC	3/8	68
1/4" – 20 UNC	3/16	6.6 (79.2)	5/8" – 11 UNC	1/2	120	1/2" – 13 UNC	3/8	68
5/16" – 18 UNC	1/4	14 (168)	3/4" – 10 UNC	5/8	208	5/8" – 11 UNC	1/2	120
1/4" – 20 UNC	3/16	6.6 (79.2)	3/4" – 10 UNC	5/8	208	5/8" – 11 UNC	1/2	120
5/16" – 18 UNC	1/4	14 (168)	7/8" – 9 UNC	3/4	335	5/8" – 11 UNC	1/2	120
1/4" – 20 UNC	3/16	6.6 (79.2)	7/8" – 9 UNC	3/4	386	5/8" – 11 UNC	1/2	120
3/8" – 16 UNC	5/16	24	1" – 8 UNC	3/4	541	3/4" – 10 UNC	5/8	208
5/16" – 18 UNC	1/4	14 (168)	7/8" – 9 UNC	3/4	386	5/8" – 11 UNC	1/2	120
3/8" – 16 UNC	5/16	24	7/8" – 9 UNC	3/4	386	3/4" – 10 UNC	5/8	208
5/16" – 18 UNC	1/4	14 (168)	1" – 8 UNC	3/4	541	3/4" – 10 UNC	5/8	208
3/8" – 16 UNC	5/16	24	1" – 8 UNC	3/4	541	3/4" – 10 UNC	5/8	208
3/8" – 16 UNC	5/16	24	3/4" – 10 UNC	5/8	208	–	–	–
3/8" – 16 UNC	5/16	24	3/4" – 10 UNC	5/8	208	3/4" – 10 UNC	5/8	208
3/8" – 16 UNC	5/16	24	1" – 8 UNC	3/4	541	7/8" – 9 UNC	3/4	386
1/2" – 13 UNC	3/8	59	3/4" – 10 UNC	5/8	208	–	–	–
3/8" – 16 UNC	5/16	24	7/8" – 9 UNC	3/4	386	3/4" – 10 UNC	5/8	208
3/8" – 16 UNC	5/16	24	1" – 8 UNC	3/4	541	7/8" – 9 UNC	3/4	386
1/2" – 13 UNC	3/8	59	1" – 8 UNC	3/4	541	–	–	–
3/8" – 16 UNC	5/16	24	7/8" – 9 UNC	3/4	386	7/8" – 9 UNC	3/4	386
1/2" – 13 UNC	3/8	59	1" – 8 UNC	3/4	541	7/8" – 9 UNC	3/4	386
1/2" – 13 UNC	3/8	59	1" – 8 UNC	3/4	541	–	–	–
3/8" – 16 UNC	5/16	24	7/8" – 9 UNC	3/4	386	7/8" – 9 UNC	3/4	386
1/2" – 13 UNC	3/8	59	1" – 8 UNC	3/4	541	1" – 8 UNC	3/4	541
5/8" – 11 UNC	1/2	120	#1" – 8 UNC	3/4	541	–	–	–

continued ▼

FAG Split Cylindrical Roller Bearings

Torque specifications

Series	Group	Clamp collar		
		Bolt	Hex key size	Torque ft-lbs
S1	1000	3/8" – 24 UNF	5/16	27
S2	1000	1/2" – 20 UNF	3/8	66
S3	1000	5/8" – 18 UNF	1/2	133
S1	1100	7/16" – 20 UNF	3/8	43
S2	1100	5/8" – 18 UNF	1/2	133
S3	1100	7/8" – 14 UNF	3/4	369
S1	1200	1/2" – 20 UNF	3/8	66
S2	1200	5/8" – 18 UNF	1/2	133
S3	1200	7/8" – 14 UNF	3/4	369
S1	1300	3/8" – 24 UNF	5/16	27
S2	1300	5/8" – 18 UNF	1/2	133
S3	1300	7/8" – 14 UNF	3/4	369
S1	1400	3/8" – 24 UNF	5/16	27
S2	1400	5/8" – 18 UNF	1/2	133
S3	1400	7/8" – 14 UNF	3/4	369
S1	1500	7/16" – 20 UNF	3/8	43
S2	1500	5/8" – 18 UNF	1/2	133
S3	1500	7/8" – 14 UNF	3/4	369
S1	1600	7/16" – 20 UNF	3/8	43
S2	1600	5/8" – 18 UNF	1/2	133

Cartridge			Pedestal housing cap			Flange housing		
Bolt	Hex key size	Torque ft-lbs	Bolt	Hex key size	Torque ft-lbs	Bolt	Hex key size	Torque ft-lbs
3/8" – 16 UNC	5/16	24	7/8" – 9 UNC	3/4	386	7/8" – 9 UNC	3/4	386
1/2" – 13 UNC	3/8	59	1" – 8 UNC	3/4	541	1" – 8 UNC	3/4	541
5/8" – 11 UNC	1/2	120	1" – 8 UNC	3/4	541	–	–	–
1/2" – 13 UNC	3/8	59	1" – 8 UNC	3/4	541	1" – 8 UNC	3/4	541
1/2" – 13 UNC	3/8	59	1 1/4" – 7 UNC	7/8	927	1" – 8 UNC	3/4	541
5/8" – 11 UNC	1/2	120	1 1/4" – 7 UNC	7/8	927	–	–	–
1/2" – 13 UNC	3/8	68	1" – 8 UNC	3/4	541	1" – 8 UNC	3/4	541
1/2" – 13 UNC	3/8	63	1 1/4" – 7 UNC	7/8	927	1" – 8 UNC	3/4	541
5/8" – 11 UNC	1/2	120	1 1/4" – 7 UNC	7/8	927	–	–	–
1/2" – 13 UNC	3/8	59	1" – 8 UNC	3/4	541	1" – 8 UNC	3/4	541
5/8" – 11 UNC	1/2	120	1 1/4" – 7 UNC	7/8	927	1" – 8 UNC	3/4	541
5/8" – 11 UNC	1/2	120	1 1/4" – 7 UNC	7/8	927	–	–	–
5/8" – 11 UNC	1/2	120	1" – 8 UNC	3/4	541	1" – 8 UNC	3/4	541
5/8" – 11 UNC	1/2	120	1 1/4" – 7 UNC	7/8	927	1" – 8 UNC	3/4	541
5/8" – 11 UNC	1/2	120	1 1/4" – 7 UNC	7/8	927	–	–	–
5/8" – 11 UNC	1/2	120	1" – 8 UNC	3/4	541	1" – 8 UNC	3/4	541
5/8" – 11 UNC	1/2	120	1 1/4" – 7 UNC	7/8	927	1" – 8 UNC	3/4	541
5/8" – 11 UNC	1/2	120	1 1/4" – 7 UNC	7/8	927	–	–	–
5/8" – 11 UNC	1/2	120	1" – 8 UNC	3/4	541	1" – 8 UNC	3/4	541
5/8" – 11 UNC	1/2	120	1 1/4" – 7 UNC	7/8	927	1" – 8 UNC	3/4	541

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FAG Split Cylindrical Roller Bearings

Bearing frequency data

The split cylindrical roller bearings, as any mechanical part, will generate natural frequencies while in operation; also known as fundamental defect frequency. The natural frequencies are generated by the rolling of the rollers as they pass through the load zone. The four distinct natural frequencies generated are the ball spin frequency, fundamental train frequency, and ball pass frequency for the inner and outer race. By predicting the natural frequency of a bearing, design engineers can utilize the information to avoid natural excitation and monitor for the propagation of defects as part of a preventative maintenance program.

The ball spin frequency is the rate at which a point of the bearing's roller comes into contact with either the inner or outer race. The fundamental train frequency is the frequency at which the roller cage enters and exits the load zone. The ball pass frequency is the rate at which a defect in the inner or outer race comes into contact with a roller. Below are the four equations for calculating the fundamental frequencies.

Ball spin frequency (roller)

$$BSF = \frac{D_p}{D_r} \cdot \frac{s}{2} \cdot \left\{ 1 - \left(\frac{D_r}{D_p} \right)^2 \cdot \cos \phi \right\}$$

Fundamental train frequency (cage)

$$FTF = \frac{s}{2} \cdot \left(1 - \frac{D_r}{D_p} \cdot \cos \phi \right)$$

Ball pass frequency inner (inner race)

$$BPFI = N \cdot \frac{s}{2} \cdot \left(1 + \frac{D_r}{D_p} \cdot \cos \phi \right)$$

Ball pass frequency outer (outer race)

$$BPFO = N \cdot \frac{s}{2} \cdot \left(1 - \frac{D_r}{D_p} \cdot \cos \phi \right)$$

BSF	min ⁻¹
Ball spin frequency (roller)	"
D _p	"
Pitch diameter	"
D _r	"
Roller diameter	"
s	min ⁻¹
Shaft speed	"
φ	°
Contact angle = 0°	"
FTF	min ⁻¹
Fundamental train frequency (cage)	"
BPFI	min ⁻¹
Ball pass frequency inner (inner race)	"
N	–
Number of rollers	"
BPFO	min ⁻¹
Ball pass frequency outer (outer race)	"

Bearing frequency data

Series	Size	Frequency per shaft revolution			
		Cage	Roller	Inner race	Outer race
S1	108	0.405	2.537	5.95	4.05
S1	200	0.417	2.917	7	5
S1	208	0.421	3.085	6.948	5.052
S2	208	0.411	2.729	7.065	4.935
S1	300	0.425	3.277	8.044	5.956
S2	300	0.411	2.719	7.068	4.932
S1	308	0.429	3.474	7.987	6.013
S2	308	0.417	2.917	8.167	5.833
S1	400	0.427	3.348	8.023	5.977
S2	400	0.417	2.917	8.167	5.833
S1	408	0.43	3.503	9.12	6.88
S2	408	0.417	2.917	8.167	5.833
S1	500	0.432	3.598	9.091	6.909
S2	500	0.417	2.917	8.167	5.833
S1	508	0.433	3.683	9.067	6.933
S2	508	0.415	2.87	8.185	5.815
S1	600	0.438	3.938	10.125	7.875
S2	600	0.421	3.103	9.257	6.743
S3	600	0.395	2.27	7.263	4.737
S1	608	0.438	3.995	10.109	7.891
S2	608	0.421	3.088	8.105	5.895
S3	608	0.409	2.642	8.28	5.72
S1	700	0.442	4.234	11.165	8.835
S2	700	0.425	3.258	9.2	6.8
S3	700	0.411	2.72	8.246	5.754
S1	800	0.448	4.713	12.154	9.846
S2	800	0.428	3.389	9.156	6.844
S3	800	0.41	2.678	8.264	5.736
S1	900	0.45	4.95	12.1	9.9
S2	900	0.434	3.703	10.194	7.806
S3	900	0.414	2.808	7.036	4.964

continued ▼

FAG Split Cylindrical Roller Bearings

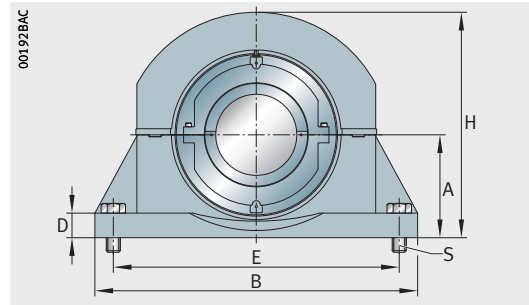
Bearing frequency data

Series	Size	Frequency per shaft revolution			
		Cage	Roller	Inner race	Outer race
S1	1000	0.455	5.455	14.182	11.818
S2	1000	0.435	3.794	10.166	7.834
S3	1000	0.418	2.971	8.147	5.853
S1	1100	0.454	5.354	13.111	10.889
S2	1100	0.436	3.836	10.154	7.846
S3	1100	0.423	3.159	9.236	6.764
S1	1200	0.457	5.807	13.026	10.974
S2	1200	0.44	4.14	11.19	8.81
S3	1200	0.461	3.328	9.176	6.824
S1	1300	0.458	5.908	14.092	11.908
S2	1300	0.445	4.484	11.102	8.898
S3	1300	0.423	3.183	8.074	5.926
S1	1400	0.461	6.292	14.027	11.973
S2	1400	0.443	4.336	11.138	8.862
S3	1400	0.428	3.403	9.151	6.849
S1	1500	0.461	6.414	15.085	12.915
S2	1500	0.446	4.552	12.194	9.806
S3	1500	0.429	3.429	9.143	6.857
S1	1600	0.463	6.78	16.1	13.9
S2	1600	0.446	4.546	12.196	9.804

continued ▲

Split Cylindrical Roller Bearing

S1 series small bore



S1BCH...-FL, S1BCH...-HL

Dimension table - Dimensions in inch

Mounted unit

Shaft diameter d		Complete component		Pedestal housing	Dimension							
		Float bearing	Held bearing		B	H	A ¹⁾	C ²⁾	D	E		F
inch	mm			min.						max.		
17/16	–	S1BCH-107-FL	S1BCH-107-HD	PH-1	9	5 1/2	2 3/8	2 3/8	7/8	6 3/4	7 1/2	–
1 1/2	–	S1BCH-108-FL	S1BCH-108-HD	PH-1	9	5 1/2	2 3/8	2 3/8	7/8	6 3/4	7 1/2	–
–	35	S1BCH-35MM-FL	S1BCH-35MM-HD	PH-1	9	5 1/2	2 3/8	2 3/8	7/8	6 3/4	7 1/2	–
–	40	S1BCH-40MM-FL	S1BCH-40MM-HD	PH-1	9	5 1/2	2 3/8	2 3/8	7/8	6 3/4	7 1/2	–
1 11/16	–	S1BCH-111-FL	S1BCH-111-HD	PH-2	10 5/8	6 1/4	2 3/4	2 3/8	1	8	8 7/8	–
1 3/4	–	S1BCH-112-FL	S1BCH-112-HD	PH-2	10 5/8	6 1/4	2 3/4	2 3/8	1	8	8 7/8	–
1 15/16	–	S1BCH-115-FL	S1BCH-115-HD	PH-2	10 5/8	6 1/4	2 3/4	2 3/8	1	8	8 7/8	–
2	–	S1BCH-200-FL	S1BCH-200-HD	PH-2	10 5/8	6 1/4	2 3/4	2 3/8	1	8	8 7/8	–
–	45	S1BCH-45MM-FL	S1BCH-45MM-HD	PH-2	10 5/8	6 1/4	2 3/4	2 3/8	1	8	8 7/8	–
–	50	S1BCH-50MM-FL	S1BCH-50MM-HD	PH-2	10 5/8	6 1/4	2 3/4	2 3/8	1	8	8 7/8	–
2 3/16	–	S1BCH-203-FL	S1BCH-203-HD	PH-3	11	7	3 5/32	2 3/4	1 1/4	8 7/8	9 1/2	–
2 1/4	–	S1BCH-204-FL	S1BCH-204-HD	PH-3	11	7	3 5/32	2 3/4	1 1/4	8 7/8	9 1/2	–
2 7/16	–	S1BCH-207-FL	S1BCH-207-HD	PH-3	11	7	3 5/32	2 3/4	1 1/4	8 7/8	9 1/2	–
2 1/2	–	S1BCH-208-FL	S1BCH-208-HD	PH-3	11	7	3 5/32	2 3/4	1 1/4	8 7/8	9 1/2	–
–	55	S1BCH-55MM-FL	S1BCH-55MM-HD	PH-3	11	7	3 3/16	2 3/4	1 1/4	8 7/8	9 1/2	–
–	60	S1BCH-60MM-FL	S1BCH-60MM-HD	PH-3	11	7	3 5/32	2 3/4	1 1/4	8 7/8	9 1/2	–
–	65	S1BCH-65MM-FL	S1BCH-65MM-HD	PH-3	11	7	3 5/32	2 3/4	1 1/4	8 7/8	9 1/2	–
2 11/16	–	S1BCH-211-FL	S1BCH-211-HD	PH-4	13	7 7/8	3 3/4	3	1 1/2	10 1/4	11	–
2 3/4	–	S1BCH-212-FL	S1BCH-212-HD	PH-4	13	7 7/8	3 3/4	3	1 1/2	10 1/4	11	–
2 15/16	–	S1BCH-215-FL	S1BCH-215-HD	PH-4	13	7 7/8	3 3/4	3	1 1/2	10 1/4	11	–
3	–	S1BCH-300-FL	S1BCH-300-HD	PH-4	13	7 7/8	3 3/4	3	1 1/2	10 1/4	11	–
–	70	S1BCH-70MM-FL	S1BCH-70MM-HD	PH-4	13	7 7/8	3 3/4	3	1 1/2	10 1/4	11	–
–	75	S1BCH-75MM-FL	S1BCH-75MM-HD	PH-4	13	7 7/8	3 3/4	3	1 1/2	10 1/4	11	–

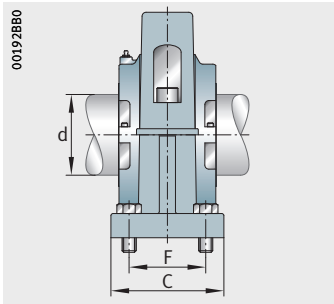
Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.

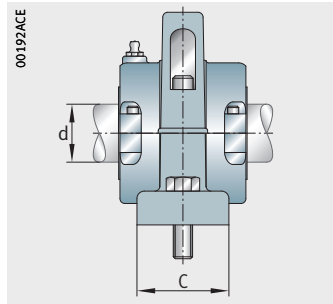
Cartridge assembly and roller bearing, see page 36.

1) Base to shaft center height can be altered upon request.

2) Housing width only.



S1BCH..-FL, S1BCH..-HD

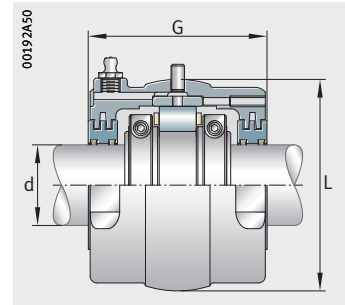


S1BCH..-FL, S1BCH..-HD

Bolt		Weight	Cartridge assembly			Bearing		Group
			Float bearing	Held bearing	Cartridge	Float bearing	Held bearing	
Number	Diameter	lbs						
2	1/2	11.0	S1BC-107-FL	S1BC-107-HD	S1C-108	S1B-107-FL	S1B-107-HD	108 Grp
2	1/2	11.0	S1BC-108-FL	S1BC-108-HD	S1C-108	S1B-108-FL	S1B-108-HD	108 Grp
2	1/2	11.0	S1BC-35MM-FL	S1BC-35MM-HD	S1C-108	S1B-35MM-FL	S1B-35MM-HD	108 Grp
2	1/2	11.0	S1BC-40MM-FL	S1BC-40MM-HD	S1C-108	S1B-40MM-FL	S1B-40MM-HD	108 Grp
2	5/8	18.5	S1BC-111-FL	S1BC-111-HD	S1C-200	S1B-111-FL	S1B-111-HD	200 Grp
2	5/8	18.5	S1BC-112-FL	S1BC-112-HD	S1C-200	S1B-112-FL	S1B-112-HD	200 Grp
2	5/8	18.5	S1BC-115-FL	S1BC-115-HD	S1C-200	S1B-115-FL	S1B-115-HD	200 Grp
2	5/8	18.5	S1BC-200-FL	S1BC-200-HD	S1C-200	S1B-200-FL	S1B-200-HD	200 Grp
2	5/8	18.5	S1BC-45MM-FL	S1BC-45MM-HD	S1C-200	S1B-45MM-FL	S1B-45MM-HD	200 Grp
2	5/8	18.5	S1BC-50MM-FL	S1BC-50MM-HD	S1C-200	S1B-50MM-FL	S1B-50MM-HD	200 Grp
2	3/4	25.4	S1BC-203-FL	S1BC-203-HD	S1C-208	S1B-203-FL	S1B-203-HD	208 Grp
2	3/4	25.4	S1BC-204-FL	S1BC-204-HD	S1C-208	S1B-204-FL	S1B-204-HD	208 Grp
2	3/4	25.4	S1BC-207-FL	S1BC-207-HD	S1C-208	S1B-207-FL	S1B-207-HD	208 Grp
2	3/4	25.4	S1BC-208-FL	S1BC-208-HD	S1C-208	S1B-208-FL	S1B-208-HD	208 Grp
2	3/4	25.4	S1BC-55MM-FL	S1BC-55MM-HD	S1C-208	S1B-55MM-FL	S1B-55MM-HD	208 Grp
2	3/4	25.4	S1BC-60MM-FL	S1BC-60MM-HD	S1C-208	S1B-60MM-FL	S1B-60MM-HD	208 Grp
2	3/4	25.4	S1BC-65MM-FL	S1BC-65MM-HD	S1C-208	S1B-65MM-FL	S1B-65MM-HD	208 Grp
2	3/4	33.0	S1BC-211-FL	S1BC-211-HD	S1C-300	S1B-211-FL	S1B-211-HD	300 Grp
2	3/4	33.0	S1BC-212-FL	S1BC-212-HD	S1C-300	S1B-212-FL	S1B-212-HD	300 Grp
2	3/4	33.0	S1BC-215-FL	S1BC-215-HD	S1C-300	S1B-215-FL	S1B-215-HD	300 Grp
2	3/4	33.0	S1BC-300-FL	S1BC-300-HD	S1C-300	S1B-300-FL	S1B-300-HD	300 Grp
2	3/4	33.0	S1BC-70MM-FL	S1BC-70MM-HD	S1C-300	S1B-70MM-FL	S1B-70MM-HD	300 Grp
2	3/4	33.0	S1BC-75MM-FL	S1BC-75MM-HD	S1C-300	S1B-75MM-FL	S1B-75MM-HD	300 Grp

Split Cylindrical Roller Bearing

S1 series small bore



S1BC...-FL

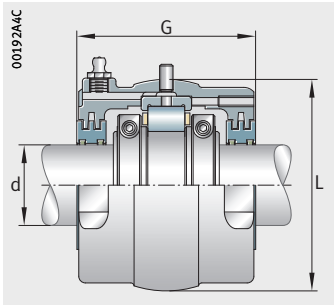
Dimension table (continued) - Dimensions in inch

Shaft diameter		Cartridge assembly						
		Float bearing	Held bearing	Dimension		Grease capacity	Cartridge	
d	G			L ¹⁾	lbs			Weight
inch	mm							lbs
1 ^{7/16}	–	S1BC-107-FL	S1BC-107-HD	3 ^{5/16}	3 ^{15/16}	0.12	S1C-108	6.9
1 ^{1/2}	–	S1BC-108-FL	S1BC-108-HD	3 ^{5/16}	3 ^{15/16}	0.12	S1C-108	6.9
–	35	S1BC-35MM-FL	S1BC-35MM-HD	3 ^{5/16}	3 ^{15/16}	0.12	S1C-108	6.9
–	40	S1BC-40MM-FL	S1BC-40MM-HD	3 ^{5/16}	3 ^{15/16}	0.12	S1C-108	6.9
1 ^{11/16}	–	S1BC-111-FL	S1BC-111-HD	3 ^{3/4}	4 ^{5/8}	0.20	S1C-200	9.2
1 ^{3/4}	–	S1BC-112-FL	S1BC-112-HD	3 ^{3/4}	4 ^{5/8}	0.20	S1C-200	9.2
1 ^{15/16}	–	S1BC-115-FL	S1BC-115-HD	3 ^{3/4}	4 ^{5/8}	0.20	S1C-200	9.2
2	–	S1BC-200-FL	S1BC-200-HD	3 ^{3/4}	4 ^{5/8}	0.20	S1C-200	9.2
–	45	S1BC-45MM-FL	S1BC-45MM-HD	3 ^{3/4}	4 ^{5/8}	0.20	S1C-200	9.2
–	50	S1BC-50MM-FL	S1BC-50MM-HD	3 ^{3/4}	4 ^{5/8}	0.20	S1C-200	9.2
2 ^{3/16}	–	S1BC-203-FL	S1BC-203-HD	4	5 ^{5/16}	0.32	S1C-208	11.6
2 ^{1/4}	–	S1BC-204-FL	S1BC-204-HD	4	5 ^{5/16}	0.32	S1C-208	11.6
2 ^{7/16}	–	S1BC-207-FL	S1BC-207-HD	4	5 ^{5/16}	0.32	S1C-208	11.6
2 ^{1/2}	–	S1BC-208-FL	S1BC-208-HD	4	5 ^{5/16}	0.32	S1C-208	11.6
–	55	S1BC-55MM-FL	S1BC-55MM-HD	4	5 ^{5/16}	0.32	S1C-208	11.6
–	60	S1BC-60MM-FL	S1BC-60MM-HD	4	5 ^{5/16}	0.32	S1C-208	11.6
–	65	S1BC-65MM-FL	S1BC-65MM-HD	4	5 ^{5/16}	0.32	S1C-208	11.6
2 ^{11/16}	–	S1BC-211-FL	S1BC-211-HD	4 ^{3/8}	6 ^{3/16}	0.39	S1C-300	18.5
2 ^{3/4}	–	S1BC-212-FL	S1BC-212-HD	4 ^{3/8}	6 ^{3/16}	0.39	S1C-300	18.5
2 ^{15/16}	–	S1BC-215-FL	S1BC-215-HD	4 ^{3/8}	6 ^{3/16}	0.39	S1C-300	18.5
3	–	S1BC-300-FL	S1BC-300-HD	4 ^{3/8}	6 ^{3/16}	0.39	S1C-300	18.5
–	70	S1BC-70MM-FL	S1BC-70MM-HD	4 ^{3/8}	6 ^{3/16}	0.39	S1C-300	18.5
–	75	S1BC-75MM-FL	S1BC-75MM-HD	4 ^{3/8}	6 ^{3/16}	0.39	S1C-300	18.5

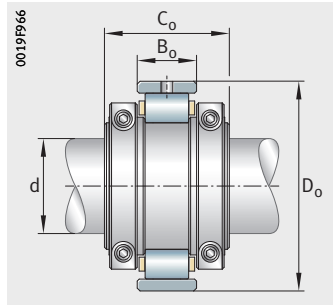
Mounted unit, see page 34.

1) Length through bore.

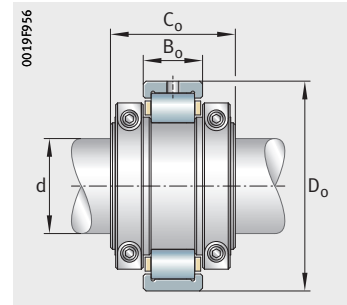
2) Based on axial capacity at 1000 min⁻¹.



S1B...-HD



S1B...-FL



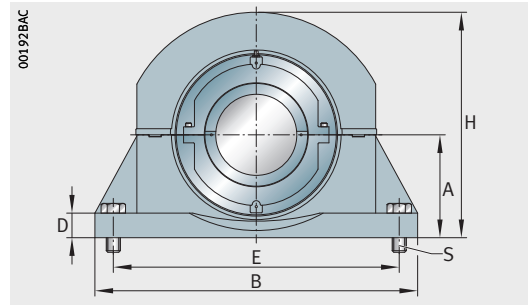
S1B...-HD

Bearing

Float bearing	Held bearing	Bearing rating				Dimension			Weight lbs	Group
		dyn. C _r lbs	stat. C ₀ lbs	axial C _a ⁽²⁾ lbs	max. Speed min ⁻¹	D ₀	C ₀	B ₀		
S1B-107-FL	S1B-107-HD	13 876	15 567	285	5 420	3.313	1.972	0.938	2.3	108 Grp
S1B-108-FL	S1B-108-HD	13 876	15 567	285	5 420	3.313	1.972	0.938	2.3	108 Grp
S1B-35MM-FL	S1B-35MM-HD	13 876	15 567	285	5 420	3.313	1.972	0.938	2.3	108 Grp
S1B-40MM-FL	S1B-40MM-HD	13 876	15 567	285	5 420	3.313	1.972	0.938	2.3	108 Grp
S1B-111-FL	S1B-111-HD	18 291	22 496	326	4 456	3.875	2.192	1	3.5	200 Grp
S1B-112-FL	S1B-112-HD	18 291	22 496	326	4 456	3.875	2.192	1	3.5	200 Grp
S1B-115-FL	S1B-115-HD	18 291	22 496	326	4 456	3.875	2.192	1	3.5	200 Grp
S1B-200-FL	S1B-200-HD	18 291	22 496	326	4 456	3.875	2.192	1	3.5	200 Grp
S1B-45MM-FL	S1B-45MM-HD	18 291	22 496	326	4 456	3.875	2.192	1	3.5	200 Grp
S1B-50MM-FL	S1B-50MM-HD	18 291	22 496	326	4 456	3.875	2.192	1	3.5	200 Grp
S1B-203-FL	S1B-203-HD	20 264	24 862	351	3 750	4.5	2.192	1.063	3.5	208 Grp
S1B-204-FL	S1B-204-HD	20 264	24 862	351	3 750	4.5	2.192	1.063	3.5	208 Grp
S1B-207-FL	S1B-207-HD	20 264	24 862	351	3 750	4.5	2.192	1.063	3.5	208 Grp
S1B-208-FL	S1B-208-HD	20 264	24 862	351	3 750	4.5	2.192	1.063	3.5	208 Grp
S1B-55MM-FL	S1B-55MM-HD	20 264	24 862	351	3 750	4.5	2.192	1.063	3.5	208 Grp
S1B-60MM-FL	S1B-60MM-HD	20 264	24 862	351	3 750	4.5	2.192	1.063	3.5	208 Grp
S1B-65MM-FL	S1B-65MM-HD	20 264	24 862	351	3 750	4.5	2.192	1.063	3.5	208 Grp
S1B-211-FL	S1B-211-HD	29 856	40 095	433	3 190	5.25	2.41	1.25	6.0	300 Grp
S1B-212-FL	S1B-212-HD	29 856	40 095	433	3 190	5.25	2.41	1.25	6.0	300 Grp
S1B-215-FL	S1B-215-HD	29 856	40 095	433	3 190	5.25	2.41	1.25	6.0	300 Grp
S1B-300-FL	S1B-300-HD	29 856	40 095	433	3 190	5.25	2.41	1.25	6.0	300 Grp
S1B-70MM-FL	S1B-70MM-HD	29 856	40 095	433	3 190	5.25	2.41	1.25	6.0	300 Grp
S1B-75MM-FL	S1B-75MM-HD	29 856	40 095	433	3 190	5.25	2.41	1.25	6.0	300 Grp

Split Cylindrical Roller Bearing

S1 series small bore



S1BCH...-FL, S1BCH...-HL

Dimension table (continued) - Dimensions in inch

Mounted unit

Shaft diameter d		Complete component		Pedestal housing	Dimension							
		Float bearing	Held bearing		B	H	A ¹⁾	C ²⁾	D	E		F
inch	mm			min.						max.		
3 ³ / ₁₆	–	S1BCH-303-FL	S1BCH-303-HD	PH-5	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	5 ¹ / ₂	1 ³ / ₄	12 ³ / ₈	13 ³ / ₈	3 ¹ / ₂
3 ³ / ₁₆	–	S1BCH-303-FL-2B	S1BCH-303-HD-2B	PH-5-2B	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	3 ¹ / ₂	1 ³ / ₄	12 ³ / ₁₆	13 ³ / ₁₆	–
3 ¹ / ₄	–	S1BCH-304-FL	S1BCH-304-HD	PH-5	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	5 ¹ / ₂	1 ³ / ₄	12 ³ / ₈	13 ³ / ₈	3 ¹ / ₂
3 ¹ / ₄	–	S1BCH-304-FL-2B	S1BCH-304-HD-2B	PH-5-2B	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	3 ¹ / ₂	1 ³ / ₄	12 ³ / ₁₆	13 ³ / ₁₆	–
3 ⁷ / ₁₆	–	S1BCH-307-FL	S1BCH-307-HD	PH-5	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	5 ¹ / ₂	1 ³ / ₄	12 ³ / ₈	13 ³ / ₈	3 ¹ / ₂
3 ⁷ / ₁₆	–	S1BCH-307-FL-2B	S1BCH-307-HD-2B	PH-5-2B	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	3 ¹ / ₂	1 ³ / ₄	12 ³ / ₁₆	13 ³ / ₁₆	–
3 ¹ / ₂	–	S1BCH-308-FL	S1BCH-308-HD	PH-5	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	5 ¹ / ₂	1 ³ / ₄	12 ³ / ₈	13 ³ / ₈	3 ¹ / ₂
3 ¹ / ₂	–	S1BCH-308-FL-2B	S1BCH-308-HD-2B	PH-5-2B	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	3 ¹ / ₂	1 ³ / ₄	12 ³ / ₁₆	13 ³ / ₁₆	–
–	80	S1BCH-80MM-FL	S1BCH-80MM-HD	PH-5	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	5 ¹ / ₂	1 ³ / ₄	12 ³ / ₈	13 ³ / ₈	3 ¹ / ₂
–	80	S1BCH-80MM-FL-2B	S1BCH-80MM-HD-2B	PH-5-2B	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	3 ¹ / ₂	1 ³ / ₄	12 ³ / ₁₆	13 ³ / ₁₆	–
–	85	S1BCH-85MM-FL	S1BCH-85MM-HD	PH-5	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	5 ¹ / ₂	1 ³ / ₄	12 ³ / ₈	13 ³ / ₈	3 ¹ / ₂
–	85	S1BCH-85MM-FL-2B	S1BCH-85MM-HD-2B	PH-5-2B	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	3 ¹ / ₂	1 ³ / ₄	12 ³ / ₁₆	13 ³ / ₁₆	–
–	90	S1BCH-90MM-FL	S1BCH-90MM-HD	PH-5	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	5 ¹ / ₂	1 ³ / ₄	12 ³ / ₈	13 ³ / ₈	3 ¹ / ₂
–	90	S1BCH-90MM-FL-2B	S1BCH-90MM-HD-2B	PH-5-2B	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	3 ¹ / ₂	1 ³ / ₄	12 ³ / ₁₆	13 ³ / ₁₆	–
3 ¹¹ / ₁₆	–	S1BCH-311-FL	S1BCH-311-HD	PH-6	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	6	2	14	15	4
3 ¹¹ / ₁₆	–	S1BCH-311-FL-2B	S1BCH-311-HD-2B	PH-6-2B	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	4 ¹ / ₄	2	13 ¹ / ₂	14 ⁷ / ₈	–
3 ³ / ₄	–	S1BCH-312-FL	S1BCH-312-HD	PH-6	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	6	2	14	15	4
3 ³ / ₄	–	S1BCH-312-FL-2B	S1BCH-312-HD-2B	PH-6-2B	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	4 ¹ / ₄	2	13 ¹ / ₂	14 ⁷ / ₈	–
3 ¹⁵ / ₁₆	–	S1BCH-315-FL	S1BCH-315-HD	PH-6	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	6	2	14	15	4
3 ¹⁵ / ₁₆	–	S1BCH-315-FL-2B	S1BCH-315-HD-2B	PH-6-2B	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	4 ¹ / ₄	2	13 ¹ / ₂	14 ⁷ / ₈	–
4	–	S1BCH-400-FL	S1BCH-400-HD	PH-6	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	6	2	14	15	4
4	–	S1BCH-400-FL-2B	S1BCH-400-HD-2B	PH-6-2B	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	4 ¹ / ₄	2	13 ¹ / ₂	14 ⁷ / ₈	–
–	100	S1BCH-100MM-FL	S1BCH-100MM-HD	PH-6	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	6	2	14	15	4
–	100	S1BCH-100MM-FL-2B	S1BCH-100MM-HD-2B	PH-6-2B	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	4 ¹ / ₄	2	13 ¹ / ₂	14 ⁷ / ₈	–
–	105	S1BCH-105MM-FL	S1BCH-105MM-HD	PH-6	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	6	2	14	15	4
–	105	S1BCH-105MM-FL-2B	S1BCH-105MM-HD-2B	PH-6-2B	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	4 ¹ / ₄	2	13 ¹ / ₂	14 ⁷ / ₈	–

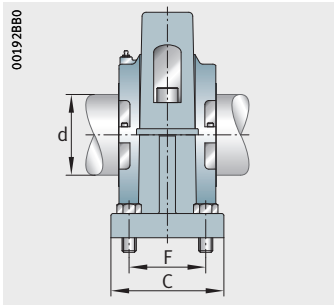
Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.

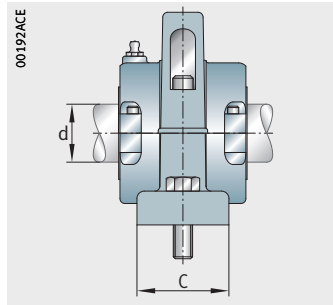
Cartridge assembly and roller bearing, see page 40.

1) Base to shaft center height can be altered upon request.

2) Housing width only.



S1BCH..-FL, S1BCH..-HD

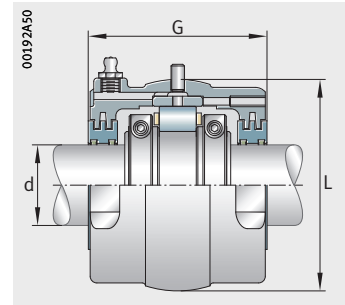


S1BCH..-FL, S1BCH..-HD

Bolt		Weight lbs	Cartridge assembly			Bearing		Group
			Float bearing	Held bearing	Cartridge	Float bearing	Held bearing	
Number	Diameter							
4	3/4	64.3	S1BC-303-FL	S1BC-303-HD	S1C-308	S1B-303-FL	S1B-303-HD	308 Grp
2	3/4	58.0	S1BC-303-FL	S1BC-303-HD	S1C-308	S1B-303-FL	S1B-303-HD	308 Grp
4	3/4	64.3	S1BC-304-FL	S1BC-304-HD	S1C-308	S1B-304-FL	S1B-304-HD	308 Grp
2	3/4	58.0	S1BC-304-FL	S1BC-304-HD	S1C-308	S1B-304-FL	S1B-304-HD	308 Grp
4	3/4	64.3	S1BC-307-FL	S1BC-307-HD	S1C-308	S1B-307-FL	S1B-307-HD	308 Grp
2	3/4	58.0	S1BC-307-FL	S1BC-307-HD	S1C-308	S1B-307-FL	S1B-307-HD	308 Grp
4	3/4	64.3	S1BC-308-FL	S1BC-308-HD	S1C-308	S1B-308-FL	S1B-308-HD	308 Grp
2	3/4	58.0	S1BC-308-FL	S1BC-308-HD	S1C-308	S1B-308-FL	S1B-308-HD	308 Grp
4	3/4	64.3	S1BC-80MM-FL	S1BC-80MM-HD	S1C-308	S1B-80MM-FL	S1B-80MM-HD	308 Grp
2	3/4	58.0	S1BC-80MM-FL	S1BC-80MM-HD	S1C-308	S1B-80MM-FL	S1B-80MM-HD	308 Grp
4	3/4	64.3	S1BC-85MM-FL	S1BC-85MM-HD	S1C-308	S1B-85MM-FL	S1B-85MM-HD	308 Grp
2	3/4	58.0	S1BC-85MM-FL	S1BC-85MM-HD	S1C-308	S1B-85MM-FL	S1B-85MM-HD	308 Grp
4	3/4	64.3	S1BC-90MM-FL	S1BC-90MM-HD	S1C-308	S1B-90MM-FL	S1B-90MM-HD	308 Grp
2	3/4	58.0	S1BC-90MM-FL	S1BC-90MM-HD	S1C-308	S1B-90MM-FL	S1B-90MM-HD	308 Grp
4	3/4	83.6	S1BC-311-FL	S1BC-311-HD	S1C-400	S1B-311-FL	S1B-311-HD	400 Grp
2	3/4	75.2	S1BC-311-FL	S1BC-311-HD	S1C-400	S1B-311-FL	S1B-311-HD	400 Grp
4	3/4	83.6	S1BC-312-FL	S1BC-312-HD	S1C-400	S1B-312-FL	S1B-312-HD	400 Grp
2	3/4	75.2	S1BC-312-FL	S1BC-312-HD	S1C-400	S1B-312-FL	S1B-312-HD	400 Grp
4	3/4	83.6	S1BC-315-FL	S1BC-315-HD	S1C-400	S1B-315-FL	S1B-315-HD	400 Grp
2	3/4	75.2	S1BC-315-FL	S1BC-315-HD	S1C-400	S1B-315-FL	S1B-315-HD	400 Grp
4	3/4	83.6	S1BC-400-FL	S1BC-400-HD	S1C-400	S1B-400-FL	S1B-400-HD	400 Grp
2	3/4	75.2	S1BC-400-FL	S1BC-400-HD	S1C-400	S1B-400-FL	S1B-400-HD	400 Grp
4	3/4	83.6	S1BC-100MM-FL	S1BC-100MM-HD	S1C-400	S1B-100MM-FL	S1B-100MM-HD	400 Grp
2	3/4	75.2	S1BC-100MM-FL	S1BC-100MM-HD	S1C-400	S1B-100MM-FL	S1B-100MM-HD	400 Grp
4	3/4	83.6	S1BC-105MM-FL	S1BC-105MM-HD	S1C-400	S1B-105MM-FL	S1B-105MM-HD	400 Grp
2	3/4	75.2	S1BC-105MM-FL	S1BC-105MM-HD	S1C-400	S1B-105MM-FL	S1B-105MM-HD	400 Grp

Split Cylindrical Roller Bearing

S1 series small bore



S1BC...-FL

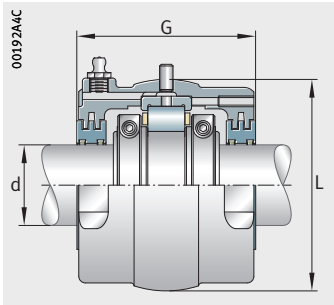
Dimension table (continued) - Dimensions in inch

Shaft diameter		Cartridge assembly						
		Float bearing	Held bearing	Dimension		Grease capacity	Cartridge	
inch	mm			G	L ¹⁾		lbs	
						lbs		lbs
3 ³ / ₁₆	–	S1BC-303-FL	S1BC-303-HD	5 ³ / ₁₆	7	0.66	S1C-308	25.5
3 ³ / ₁₆	–	S1BC-303-FL	S1BC-303-HD	5 ³ / ₁₆	7	0.66	S1C-308	25.5
3 ¹ / ₄	–	S1BC-304-FL	S1BC-304-HD	5 ³ / ₁₆	7	0.66	S1C-308	25.5
3 ¹ / ₄	–	S1BC-304-FL	S1BC-304-HD	5 ³ / ₁₆	7	0.66	S1C-308	25.5
3 ⁷ / ₁₆	–	S1BC-307-FL	S1BC-307-HD	5 ³ / ₁₆	7	0.66	S1C-308	25.5
3 ⁷ / ₁₆	–	S1BC-307-FL	S1BC-307-HD	5 ³ / ₁₆	7	0.66	S1C-308	25.5
3 ¹ / ₂	–	S1BC-308-FL	S1BC-308-HD	5 ³ / ₁₆	7	0.66	S1C-308	25.5
3 ¹ / ₂	–	S1BC-308-FL	S1BC-308-HD	5 ³ / ₁₆	7	0.66	S1C-308	25.5
–	80	S1BC-80MM-FL	S1BC-80MM-HD	5 ³ / ₁₆	7	0.66	S1C-308	25.5
–	80	S1BC-80MM-FL	S1BC-80MM-HD	5 ³ / ₁₆	7	0.66	S1C-308	25.5
–	85	S1BC-85MM-FL	S1BC-85MM-HD	5 ³ / ₁₆	7	0.66	S1C-308	25.5
–	85	S1BC-85MM-FL	S1BC-85MM-HD	5 ³ / ₁₆	7	0.66	S1C-308	25.5
–	90	S1BC-90MM-FL	S1BC-90MM-HD	5 ³ / ₁₆	7	0.66	S1C-308	25.5
–	90	S1BC-90MM-FL	S1BC-90MM-HD	5 ³ / ₁₆	7	0.66	S1C-308	25.5
3 ¹¹ / ₁₆	–	S1BC-311-FL	S1BC-311-HD	5 ³ / ₁₆	8	0.78	S1C-400	32.3
3 ¹¹ / ₁₆	–	S1BC-311-FL	S1BC-311-HD	5 ³ / ₁₆	8	0.78	S1C-400	32.3
3 ³ / ₄	–	S1BC-312-FL	S1BC-312-HD	5 ³ / ₁₆	8	0.78	S1C-400	32.3
3 ³ / ₄	–	S1BC-312-FL	S1BC-312-HD	5 ³ / ₁₆	8	0.78	S1C-400	32.3
3 ¹⁵ / ₁₆	–	S1BC-315-FL	S1BC-315-HD	5 ³ / ₁₆	8	0.78	S1C-400	32.3
3 ¹⁵ / ₁₆	–	S1BC-315-FL	S1BC-315-HD	5 ³ / ₁₆	8	0.78	S1C-400	32.3
4	–	S1BC-400-FL	S1BC-400-HD	5 ³ / ₁₆	8	0.78	S1C-400	32.3
4	–	S1BC-400-FL	S1BC-400-HD	5 ³ / ₁₆	8	0.78	S1C-400	32.3
–	100	S1BC-100MM-FL	S1BC-100MM-HD	5 ³ / ₁₆	8	0.78	S1C-400	32.3
–	100	S1BC-100MM-FL	S1BC-100MM-HD	5 ³ / ₁₆	8	0.78	S1C-400	32.3
–	105	S1BC-105MM-FL	S1BC-105MM-HD	5 ³ / ₁₆	8	0.78	S1C-400	32.3
–	105	S1BC-105MM-FL	S1BC-105MM-HD	5 ³ / ₁₆	8	0.78	S1C-400	32.3

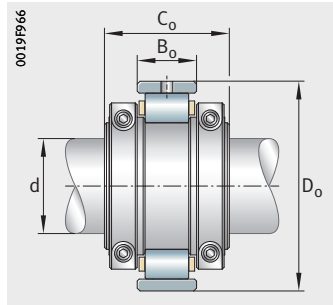
Mounted unit, see page 38.

1) Length through bore.

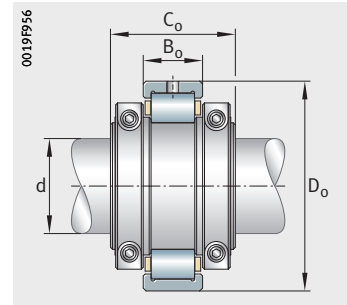
2) Based on axial capacity at 1000 min⁻¹.



S1BC..-HD



S1B..-FL



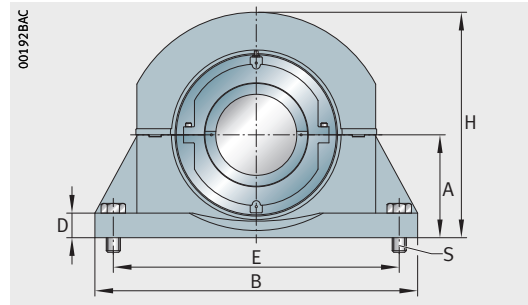
S1B..-HD

Bearing

Float bearing	Held bearing	Bearing rating				Dimension			Weight lbs	Group
		dyn. C _r lbs	stat. C ₀ lbs	axial C _a ²⁾ lbs	max. Speed min ⁻¹	D ₀	C ₀	B ₀		
S1B-303-FL	S1B-303-HD	37 569	52 773	453	2 740	6	2.781	1.531	9.2	308 Grp
S1B-303-FL	S1B-303-HD	37 569	52 773	453	2 740	6	2.781	1.531	9.2	308 Grp
S1B-304-FL	S1B-304-HD	37 569	52 773	453	2 740	6	2.781	1.531	9.2	308 Grp
S1B-304-FL	S1B-304-HD	37 569	52 773	453	2 740	6	2.781	1.531	9.2	308 Grp
S1B-307-FL	S1B-307-HD	37 569	52 773	453	2 740	6	2.781	1.531	9.2	308 Grp
S1B-307-FL	S1B-307-HD	37 569	52 773	453	2 740	6	2.781	1.531	9.2	308 Grp
S1B-308-FL	S1B-308-HD	37 569	52 773	453	2 740	6	2.781	1.531	9.2	308 Grp
S1B-308-FL	S1B-308-HD	37 569	52 773	453	2 740	6	2.781	1.531	9.2	308 Grp
S1B-80MM-FL	S1B-80MM-HD	37 569	52 773	453	2 740	6	2.781	1.531	9.2	308 Grp
S1B-80MM-FL	S1B-80MM-HD	37 569	52 773	453	2 740	6	2.781	1.531	9.2	308 Grp
S1B-85MM-FL	S1B-85MM-HD	37 569	52 773	453	2 740	6	2.781	1.531	9.2	308 Grp
S1B-85MM-FL	S1B-85MM-HD	37 569	52 773	453	2 740	6	2.781	1.531	9.2	308 Grp
S1B-90MM-FL	S1B-90MM-HD	37 569	52 773	453	2 740	6	2.781	1.531	9.2	308 Grp
S1B-90MM-FL	S1B-90MM-HD	37 569	52 773	453	2 740	6	2.781	1.531	9.2	308 Grp
S1B-311-FL	S1B-311-HD	51 238	73 094	552	2 400	6.875	3.188	1.781	13.9	400 Grp
S1B-311-FL	S1B-311-HD	51 238	73 094	552	2 400	6.875	3.188	1.781	13.9	400 Grp
S1B-312-FL	S1B-312-HD	51 238	73 094	552	2 400	6.875	3.188	1.781	13.9	400 Grp
S1B-312-FL	S1B-312-HD	51 238	73 094	552	2 400	6.875	3.188	1.781	13.9	400 Grp
S1B-315-FL	S1B-315-HD	51 238	73 094	552	2 400	6.875	3.188	1.781	13.9	400 Grp
S1B-315-FL	S1B-315-HD	51 238	73 094	552	2 400	6.875	3.188	1.781	13.9	400 Grp
S1B-400-FL	S1B-400-HD	51 238	73 094	552	2 400	6.875	3.188	1.781	13.9	400 Grp
S1B-400-FL	S1B-400-HD	51 238	73 094	552	2 400	6.875	3.188	1.781	13.9	400 Grp
S1B-100MM-FL	S1B-100MM-HD	51 238	73 094	552	2 400	6.875	3.188	1.781	13.9	400 Grp
S1B-100MM-FL	S1B-100MM-HD	51 238	73 094	552	2 400	6.875	3.188	1.781	13.9	400 Grp
S1B-105MM-FL	S1B-105MM-HD	51 238	73 094	552	2 400	6.875	3.188	1.781	13.9	400 Grp
S1B-105MM-FL	S1B-105MM-HD	51 238	73 094	552	2 400	6.875	3.188	1.781	13.9	400 Grp

Split Cylindrical Roller Bearing

S1 series small bore



S1BCH...-FL, S1BCH...-HL

Dimension table (continued) · Dimensions in inch

Mounted unit

Shaft diameter d		Complete component		Pedestal housing	Dimension									
					Float bearing	Held bearing	B	H	A ¹⁾	C ²⁾	D	E		F
		min.	max.											
inch	mm													
4 ³ / ₁₆	–	S1BCH-403-FL	S1BCH-403-HD	PH-7	18 ³ / ₄	12 ³ / ₈	5 ⁵ / ₈	6 ³ / ₄	2 ³ / ₈	15 ³ / ₄	16 ¹¹ / ₁₆	4 ¹ / ₂		
4 ¹ / ₄	–	S1BCH-404-FL	S1BCH-404-HD	PH-7	18 ³ / ₄	12 ³ / ₈	5 ⁵ / ₈	6 ³ / ₄	2 ³ / ₈	15 ³ / ₄	16 ¹¹ / ₁₆	4 ¹ / ₂		
4 ⁷ / ₁₆	–	S1BCH-407-FL	S1BCH-407-HD	PH-7	18 ³ / ₄	12 ³ / ₈	5 ⁵ / ₈	6 ³ / ₄	2 ³ / ₈	15 ³ / ₄	16 ¹¹ / ₁₆	4 ¹ / ₂		
4 ¹ / ₂	–	S1BCH-408-FL	S1BCH-408-HD	PH-7	18 ³ / ₄	12 ³ / ₈	5 ⁵ / ₈	6 ³ / ₄	2 ³ / ₈	15 ³ / ₄	16 ¹¹ / ₁₆	4 ¹ / ₂		
–	110	S1BCH-110MM-FL	S1BCH-110MM-HD	PH-7	18 ³ / ₄	12 ³ / ₈	5 ⁵ / ₈	6 ³ / ₄	2 ³ / ₈	15 ³ / ₄	16 ¹¹ / ₁₆	4 ¹ / ₂		
–	115	S1BCH-115MM-FL	S1BCH-115MM-HD	PH-7	18 ³ / ₄	12 ³ / ₈	5 ⁵ / ₈	6 ³ / ₄	2 ³ / ₈	15 ³ / ₄	16 ¹¹ / ₁₆	4 ¹ / ₂		
4 ¹¹ / ₁₆	–	S1BCH-411-FL	S1BCH-411-HD	PH-8	20	14	6 ³ / ₈	7	1 ¹ / ₂	17 ¹ / ₄	18 ³ / ₁₆	4 ³ / ₄		
4 ³ / ₄	–	S1BCH-412-FL	S1BCH-412-HD	PH-8	20	14	6 ³ / ₈	7	1 ¹ / ₂	17 ¹ / ₄	18 ³ / ₁₆	4 ³ / ₄		
4 ¹⁵ / ₁₆	–	S1BCH-415-FL	S1BCH-415-HD	PH-8	20	14	6 ³ / ₈	7	1 ¹ / ₂	17 ¹ / ₄	18 ³ / ₁₆	4 ³ / ₄		
5	–	S1BCH-500-FL	S1BCH-500-HD	PH-8	20	14	6 ³ / ₈	7	1 ¹ / ₂	17 ¹ / ₄	18 ³ / ₁₆	4 ³ / ₄		
–	120	S1BCH-120MM-FL	S1BCH-120MM-HD	PH-8	20	14	6 ³ / ₈	7	1 ¹ / ₂	17 ¹ / ₄	18 ³ / ₁₆	4 ³ / ₄		
–	125	S1BCH-125MM-FL	S1BCH-125MM-HD	PH-8	20	14	6 ³ / ₈	7	1 ¹ / ₂	17 ¹ / ₄	18 ³ / ₁₆	4 ³ / ₄		
–	130	S1BCH-130MM-FL	S1BCH-130MM-HD	PH-8	20	14	6 ³ / ₈	7	1 ¹ / ₂	17 ¹ / ₄	18 ³ / ₁₆	4 ³ / ₄		
5 ³ / ₁₆	–	S1BCH-503-FL	S1BCH-503-HD	PH-9	22	15 ¹ / ₂	7 ¹ / ₈	7	1 ⁹ / ₁₆	18 ¹ / ₂	19 ¹ / ₂	4 ³ / ₄		
5 ¹ / ₄	–	S1BCH-504-FL	S1BCH-504-HD	PH-9	22	15 ¹ / ₂	7 ¹ / ₈	7	1 ⁹ / ₁₆	18 ¹ / ₂	19 ¹ / ₂	4 ³ / ₄		
5 ⁷ / ₁₆	–	S1BCH-507-FL	S1BCH-507-HD	PH-9	22	15 ¹ / ₂	7 ¹ / ₈	7	1 ⁹ / ₁₆	18 ¹ / ₂	19 ¹ / ₂	4 ³ / ₄		
5 ¹ / ₂	–	S1BCH-508-FL	S1BCH-508-HD	PH-9	22	15 ¹ / ₂	7 ¹ / ₈	7	1 ⁹ / ₁₆	18 ¹ / ₂	19 ¹ / ₂	4 ³ / ₄		
–	135	S1BCH-135MM-FL	S1BCH-135MM-HD	PH-9	22	15 ¹ / ₂	7 ¹ / ₈	7	1 ⁹ / ₁₆	18 ¹ / ₂	19 ¹ / ₂	4 ³ / ₄		
–	140	S1BCH-140MM-FL	S1BCH-140MM-HD	PH-9	22	15 ¹ / ₂	7 ¹ / ₈	7	1 ⁹ / ₁₆	18 ¹ / ₂	19 ¹ / ₂	4 ³ / ₄		
5 ¹⁵ / ₁₆	–	S1BCH-515-FL	S1BCH-515-HD	PH-10	22	15 ³ / ₄	7 ¹ / ₈	7	1 ⁵ / ₈	18 ¹ / ₂	20 ¹ / ₂	4 ³ / ₄		
6	–	S1BCH-600-FL	S1BCH-600-HD	PH-10	22	15 ³ / ₄	7 ¹ / ₈	7	1 ⁵ / ₈	18 ¹ / ₂	20 ¹ / ₂	4 ³ / ₄		
–	150	S1BCH-150MM-FL	S1BCH-150MM-HD	PH-10	22	15 ³ / ₄	7 ¹ / ₈	7	1 ⁵ / ₈	18 ¹ / ₂	20 ¹ / ₂	4 ³ / ₄		
–	155	S1BCH-155MM-FL	S1BCH-155MM-HD	PH-10	22	15 ³ / ₄	7 ¹ / ₈	7	1 ⁵ / ₈	18 ¹ / ₂	20 ¹ / ₂	4 ³ / ₄		
–	–	S1BCH-160/600MM-FL	S1BCH-160/600MM-HD	PH-10	22	15 ³ / ₄	7 ¹ / ₈	7	1 ⁵ / ₈	18 ¹ / ₂	20 ¹ / ₂	4 ³ / ₄		

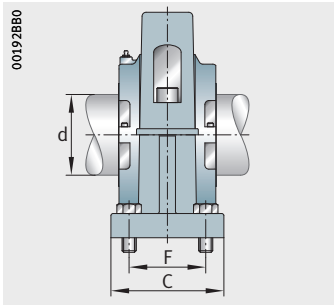
Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.

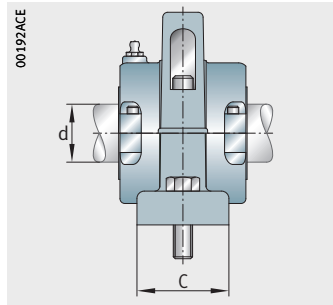
Cartridge assembly and roller bearing, see page 44.

1) Base to shaft center height can be altered upon request.

2) Housing width only.



S1BCH..-FL, S1BCH..-HD

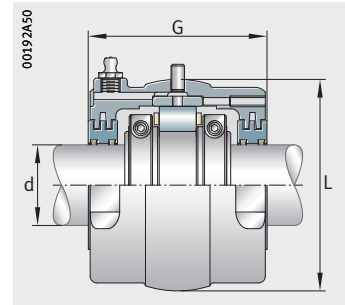


S1BCH..-FL, S1BCH..-HD

Bolt		Weight	Cartridge assembly			Bearing		Group
			Float bearing	Held bearing	Cartridge	Float bearing	Held bearing	
Number	Diameter	lbs						
4	3/4	110.0	S1BC-403-FL	S1BC-403-HD	S1C-408	S1B-403-FL	S1B-403-HD	408 Grp
4	3/4	110.0	S1BC-404-FL	S1BC-404-HD	S1C-408	S1B-404-FL	S1B-404-HD	408 Grp
4	3/4	110.0	S1BC-407-FL	S1BC-407-HD	S1C-408	S1B-407-FL	S1B-407-HD	408 Grp
4	3/4	110.0	S1BC-408-FL	S1BC-408-HD	S1C-408	S1B-408-FL	S1B-408-HD	408 Grp
4	3/4	110.0	S1BC-110MM-FL	S1BC-110MM-HD	S1C-408	S1B-110MM-FL	S1B-110MM-HD	408 Grp
4	3/4	110.0	S1BC-115MM-FL	S1BC-115MM-HD	S1C-408	S1B-115MM-FL	S1B-115MM-HD	408 Grp
4	7/8	175.9	S1BC-411-FL	S1BC-411-HD	S1C-500	S1B-411-FL	S1B-411-HD	500 Grp
4	7/8	175.9	S1BC-412-FL	S1BC-412-HD	S1C-500	S1B-412-FL	S1B-412-HD	500 Grp
4	7/8	175.9	S1BC-415-FL	S1BC-415-HD	S1C-500	S1B-415-FL	S1B-415-HD	500 Grp
4	7/8	175.9	S1BC-500-FL	S1BC-500-HD	S1C-500	S1B-500-FL	S1B-500-HD	500 Grp
4	7/8	175.9	S1BC-120MM-FL	S1BC-120MM-HD	S1C-500	S1B-120MM-FL	S1B-120MM-HD	500 Grp
4	7/8	175.9	S1BC-125MM-FL	S1BC-125MM-HD	S1C-500	S1B-125MM-FL	S1B-125MM-HD	500 Grp
4	7/8	175.9	S1BC-130MM-FL	S1BC-130MM-HD	S1C-500	S1B-130MM-FL	S1B-130MM-HD	500 Grp
4	7/8	201.3	S1BC-503-FL	S1BC-503-HD	S1C-508	S1B-503-FL	S1B-503-HD	508 Grp
4	7/8	201.3	S1BC-504-FL	S1BC-504-HD	S1C-508	S1B-504-FL	S1B-504-HD	508 Grp
4	7/8	201.3	S1BC-507-FL	S1BC-507-HD	S1C-508	S1B-507-FL	S1B-507-HD	508 Grp
4	7/8	201.3	S1BC-508-FL	S1BC-508-HD	S1C-508	S1B-508-FL	S1B-508-HD	508 Grp
4	7/8	201.3	S1BC-135MM-FL	S1BC-135MM-HD	S1C-508	S1B-135MM-FL	S1B-135MM-HD	508 Grp
4	7/8	201.3	S1BC-140MM-FL	S1BC-140MM-HD	S1C-508	S1B-140MM-FL	S1B-140MM-HD	508 Grp
4	7/8	224.4	S1BC-515-FL	S1BC-515-HD	S1C-600	S1B-515-FL	S1B-515-HD	600 Grp
4	7/8	224.4	S1BC-600-FL	S1BC-600-HD	S1C-600	S1B-600-FL	S1B-600-HD	600 Grp
4	7/8	224.4	S1BC-150MM-FL	S1BC-150MM-HD	S1C-600	S1B-150MM-FL	S1B-150MM-HD	600 Grp
4	7/8	224.4	S1BC-155MM-FL	S1BC-155MM-HD	S1C-600	S1B-155MM-FL	S1B-155MM-HD	600 Grp
4	7/8	224.4	S1BC-160/600MM-FL	S1BC-160/600MM-HD	S1C-600	S1B-160/600MM-FL	S1B-160/600MM-HD	600 Grp

Split Cylindrical Roller Bearing

S1 series small bore



S1BC...-FL

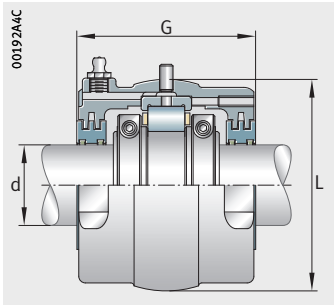
Dimension table (continued) - Dimensions in inch

Shaft diameter		Cartridge assembly						
		Float bearing	Held bearing	Dimension		Grease capacity	Cartridge	
d	G			L ¹⁾	lbs			Weight
inch	mm							lbs
4 ^{3/16}	–	S1BC-403-FL	S1BC-403-HD	5 ^{9/16}	9 ^{1/8}	1.20	S1C-408	48.6
4 ^{1/4}	–	S1BC-404-FL	S1BC-404-HD	5 ^{9/16}	9 ^{1/8}	1.20	S1C-408	48.6
4 ^{7/16}	–	S1BC-407-FL	S1BC-407-HD	5 ^{9/16}	9 ^{1/8}	1.20	S1C-408	48.6
4 ^{1/2}	–	S1BC-408-FL	S1BC-408-HD	5 ^{9/16}	9 ^{1/8}	1.20	S1C-408	48.6
–	110	S1BC-110MM-FL	S1BC-110MM-HD	5 ^{9/16}	9 ^{1/8}	1.20	S1C-408	48.6
–	115	S1BC-115MM-FL	S1BC-115MM-HD	5 ^{9/16}	9 ^{1/8}	1.20	S1C-408	48.6
4 ^{11/16}	–	S1BC-411-FL	S1BC-411-HD	6 ^{1/16}	10 ^{1/2}	1.40	S1C-500	71.7
4 ^{3/4}	–	S1BC-412-FL	S1BC-412-HD	6 ^{1/16}	10 ^{1/2}	1.40	S1C-500	71.7
4 ^{15/16}	–	S1BC-415-FL	S1BC-415-HD	6 ^{1/16}	10 ^{1/2}	1.40	S1C-500	71.7
5	–	S1BC-500-FL	S1BC-500-HD	6 ^{1/16}	10 ^{1/2}	1.40	S1C-500	71.7
–	120	S1BC-120MM-FL	S1BC-120MM-HD	6 ^{1/16}	10 ^{1/2}	1.40	S1C-500	71.7
–	125	S1BC-125MM-FL	S1BC-125MM-HD	6 ^{1/16}	10 ^{1/2}	1.40	S1C-500	71.7
–	130	S1BC-130MM-FL	S1BC-130MM-HD	6 ^{1/16}	10 ^{1/2}	1.40	S1C-500	71.7
5 ^{3/16}	–	S1BC-503-FL	S1BC-503-HD	6 ^{9/16}	11	1.80	S1C-508	81.1
5 ^{1/4}	–	S1BC-504-FL	S1BC-504-HD	6 ^{9/16}	11	1.80	S1C-508	81.1
5 ^{7/16}	–	S1BC-507-FL	S1BC-507-HD	6 ^{9/16}	11	1.80	S1C-508	81.1
5 ^{1/2}	–	S1BC-508-FL	S1BC-508-HD	6 ^{9/16}	11	1.80	S1C-508	81.1
–	135	S1BC-135MM-FL	S1BC-135MM-HD	6 ^{9/16}	11	1.80	S1C-508	81.1
–	140	S1BC-140MM-FL	S1BC-140MM-HD	6 ^{9/16}	11	1.80	S1C-508	81.1
5 ^{15/16}	–	S1BC-515-FL	S1BC-515-HD	6 ^{3/4}	11 ^{5/8}	2.00	S1C-600	97.0
6	–	S1BC-600-FL	S1BC-600-HD	6 ^{3/4}	11 ^{5/8}	2.00	S1C-600	97.0
–	150	S1BC-150MM-FL	S1BC-150MM-HD	6 ^{3/4}	11 ^{5/8}	2.00	S1C-600	97.0
–	155	S1BC-155MM-FL	S1BC-155MM-HD	6 ^{3/4}	11 ^{5/8}	2.00	S1C-600	97.0
–	–	S1BC-160/600MM-FL	S1BC-160/600MM-HD	6 ^{3/4}	11 ^{5/8}	2.00	S1C-600	97.0

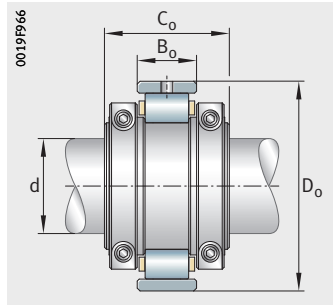
Mounted unit, see page 42.

1) Length through bore.

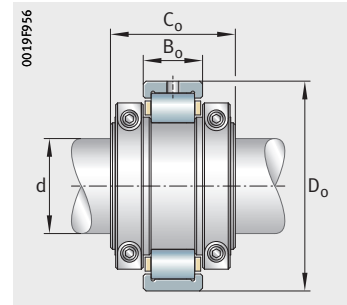
2) Based on axial capacity at 1000 min⁻¹.



S1BC..-HD



S1B..-FL



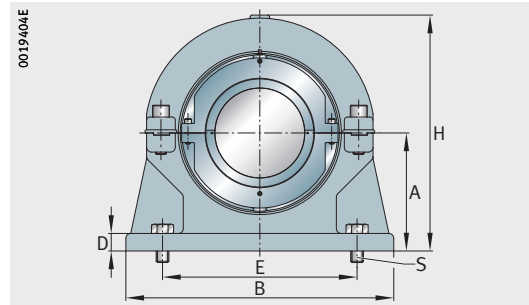
S1B..-HD

Bearing

Float bearing	Held bearing	Bearing rating				Dimension			Weight lbs	Group
		dyn. C _r lbs	stat. C ₀ lbs	axial C _a ²⁾ lbs	max. Speed min ⁻¹	D ₀	C ₀	B ₀		
S1B-403-FL	S1B-403-HD	63 235	94 671	654	2 140	8	3.342	1.844	20.8	408 Grp
S1B-404-FL	S1B-404-HD	63 235	94 671	654	2 140	8	3.342	1.844	20.8	408 Grp
S1B-407-FL	S1B-407-HD	63 235	94 671	654	2 140	8	3.342	1.844	20.8	408 Grp
S1B-408-FL	S1B-408-HD	63 235	94 671	654	2 140	8	3.342	1.844	20.8	408 Grp
S1B-110MM-FL	S1B-110MM-HD	63 235	94 671	654	2 140	8	3.342	1.844	20.8	408 Grp
S1B-115MM-FL	S1B-115MM-HD	63 235	94 671	654	2 140	8	3.342	1.844	20.8	408 Grp
S1B-411-FL	S1B-411-HD	72 854	111 440	685	1 940	8.75	3.531	2.125	25.5	500 Grp
S1B-412-FL	S1B-412-HD	72 854	111 440	685	1 940	8.75	3.531	2.125	25.5	500 Grp
S1B-415-FL	S1B-415-HD	72 854	111 440	685	1 940	8.75	3.531	2.125	25.5	500 Grp
S1B-500-FL	S1B-500-HD	72 854	111 440	685	1 940	8.75	3.531	2.125	25.5	500 Grp
S1B-120MM-FL	S1B-120MM-HD	72 854	111 440	685	1 940	8.75	3.531	2.125	25.5	500 Grp
S1B-125MM-FL	S1B-125MM-HD	72 854	111 440	685	1 940	8.75	3.531	2.125	25.5	500 Grp
S1B-130MM-FL	S1B-130MM-HD	72 854	111 440	685	1 940	8.75	3.531	2.125	25.5	500 Grp
S1B-503-FL	S1B-503-HD	80 739	124 862	717	1 780	9.5	3.875	2.188	32.4	508 Grp
S1B-504-FL	S1B-504-HD	80 739	124 862	717	1 780	9.5	3.875	2.188	32.4	508 Grp
S1B-507-FL	S1B-507-HD	80 739	124 862	717	1 780	9.5	3.875	2.188	32.4	508 Grp
S1B-508-FL	S1B-508-HD	80 739	124 862	717	1 780	9.5	3.875	2.188	32.4	508 Grp
S1B-135MM-FL	S1B-135MM-HD	80 739	124 862	717	1 780	9.5	3.875	2.188	32.4	508 Grp
S1B-140MM-FL	S1B-140MM-HD	80 739	124 862	717	1 780	9.5	3.875	2.188	32.4	508 Grp
S1B-515-FL	S1B-515-HD	87 637	141 821	762	1 670	10	3.875	2.188	37.1	600 Grp
S1B-600-FL	S1B-600-HD	87 637	141 821	762	1 670	10	3.875	2.188	37.1	600 Grp
S1B-150MM-FL	S1B-150MM-HD	87 637	141 821	762	1 670	10	3.875	2.188	37.1	600 Grp
S1B-155MM-FL	S1B-155MM-HD	87 637	141 821	762	1 670	10	3.875	2.188	37.1	600 Grp
S1B-160/600MM-FL	S1B-160/600MM-HD	87 637	141 821	762	1 670	10	3.875	2.188	37.1	600 Grp

Split Cylindrical Roller Bearing

S1 series large bore



S1BCH...-FL, S1BCH...-HL

Dimension table - Dimensions in inch

Mounted unit

Shaft diameter d		Complete component		Pedestal housing	Dimension							
					Float bearing	Held bearing	B	H	A ¹⁾	C ²⁾	D	E
		min.	max.									
6 ^{7/16}	-	S1BCH-607-FL	S1BCH-607-HD	PH-11	20	17	8 ^{3/8}	7	1 ^{1/4}	14	15	4 ^{1/2}
6 ^{1/2}	-	S1BCH-608-FL	S1BCH-608-HD	PH-11	20	17	8 ^{3/8}	7	1 ^{1/4}	14	15	4 ^{1/2}
-	160	S1BCH-160MM-FL	S1BCH-160MM-HD	PH-11	20	17	8 ^{3/8}	7	1 ^{1/4}	14	15	4 ^{1/2}
-	165	S1BCH-165MM-FL	S1BCH-165MM-HD	PH-11	20	17	8 ^{3/8}	7	1 ^{1/4}	14	15	4 ^{1/2}
6 ^{11/16}	-	S1BCH-611-FL	S1BCH-611-HD	PH-12	21	18 ^{1/2}	9 ^{1/4}	7 ^{1/2}	1 ^{3/8}	14 ^{3/8}	15 ^{3/4}	5
6 ^{15/16}	-	S1BCH-615-FL	S1BCH-615-HD	PH-12	21	18 ^{1/2}	9 ^{1/4}	7 ^{1/2}	1 ^{3/8}	14 ^{3/8}	15 ^{3/4}	5
7	-	S1BCH-700-FL	S1BCH-700-HD	PH-12	21	18 ^{1/2}	9 ^{1/4}	7 ^{1/2}	1 ^{3/8}	14 ^{3/8}	15 ^{3/4}	5
-	170	S1BCH-170MM-FL	S1BCH-170MM-HD	PH-12	21	18 ^{1/2}	9 ^{1/4}	7 ^{1/2}	1 ^{3/8}	14 ^{3/8}	15 ^{3/4}	5
-	180	S1BCH-180MM-FL	S1BCH-180MM-HD	PH-12	21	18 ^{1/2}	9 ^{1/4}	7 ^{1/2}	1 ^{3/8}	14 ^{3/8}	15 ^{3/4}	5
7 ^{1/2}	-	S1BCH-708-FL	S1BCH-708-HD	PH-13	22 ^{1/2}	19 ^{1/2}	9 ^{3/4}	8	1 ^{1/2}	16 ^{1/8}	17 ^{1/8}	5 ^{1/2}
7 ^{15/16}	-	S1BCH-715-FL	S1BCH-715-HD	PH-13	22 ^{1/2}	19 ^{1/2}	9 ^{3/4}	8	1 ^{1/2}	16 ^{1/8}	17 ^{1/8}	5 ^{1/2}
8	-	S1BCH-800-FL	S1BCH-800-HD	PH-13	22 ^{1/2}	19 ^{1/2}	9 ^{3/4}	8	1 ^{1/2}	16 ^{1/8}	17 ^{1/8}	5 ^{1/2}
-	190	S1BCH-190MM-FL	S1BCH-190MM-HD	PH-13	22 ^{1/2}	19 ^{1/2}	9 ^{3/4}	8	1 ^{1/2}	16 ^{1/8}	17 ^{1/8}	5 ^{1/2}
-	200	S1BCH-200MM-FL	S1BCH-200MM-HD	PH-13	22 ^{1/2}	19 ^{1/2}	9 ^{3/4}	8	1 ^{1/2}	16 ^{1/8}	17 ^{1/8}	5 ^{1/2}
8 ^{1/2}	-	S1BCH-808-FL	S1BCH-808-HD	PH-14	25	21 ^{1/4}	10 ^{5/8}	8 ^{1/2}	1 ^{5/8}	17 ^{3/8}	18 ^{7/8}	5 ^{1/2}
8 ^{15/16}	-	S1BCH-815-FL	S1BCH-815-HD	PH-14	25	21 ^{1/4}	10 ^{5/8}	8 ^{1/2}	1 ^{5/8}	17 ^{3/8}	18 ^{7/8}	5 ^{1/2}
9	-	S1BCH-900-FL	S1BCH-900-HD	PH-14	25	21 ^{1/4}	10 ^{5/8}	8 ^{1/2}	1 ^{5/8}	17 ^{3/8}	18 ^{7/8}	5 ^{1/2}
-	220	S1BCH-220MM-FL	S1BCH-220MM-HD	PH-14	25	21 ^{1/4}	10 ^{5/8}	8 ^{1/2}	1 ^{5/8}	17 ^{3/8}	18 ^{7/8}	5 ^{1/2}
9 ^{1/2}	-	S1BCH-908-FL	S1BCH-908-HD	PH-15	27	23	11 ^{1/2}	9	1 ^{3/4}	19	20 ^{1/2}	5 ^{1/2}
9 ^{15/16}	-	S1BCH-915-FL	S1BCH-915-HD	PH-15	27	23	11 ^{1/2}	9	1 ^{3/4}	19	20 ^{1/2}	5 ^{1/2}
10	-	S1BCH-1000-FL	S1BCH-1000-HD	PH-15	27	23	11 ^{1/2}	9	1 ^{3/4}	19	20 ^{1/2}	5 ^{1/2}
-	240	S1BCH-240MM-FL	S1BCH-240MM-HD	PH-15	27	23	11 ^{1/2}	9	1 ^{3/4}	19	20 ^{1/2}	5 ^{1/2}
-	250	S1BCH-250MM-FL	S1BCH-250MM-HD	PH-15	27	23	11 ^{1/2}	9	1 ^{3/4}	19	20 ^{1/2}	5 ^{1/2}

Special application bearings are available upon request.

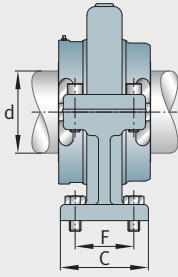
Normal operating temperature for standard bearings is +32 °F to +212 °F.

Cartridge assembly and roller bearing, see page 48.

1) Base to shaft center height can be altered upon request.

2) Housing width only.

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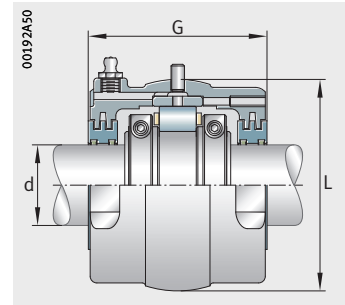


S1BCH..-FL, S1BCH..-HL

Bolt		Weight lbs	Cartridge assembly			Bearing		Group
			Float bearing	Held bearing	Cartridge	Float bearing	Held bearing	
Number	Diameter							
4	1	235.9	S1BC-607-FL	S1BC-607-HD	S1C-608	S1B-607-FL	S1B-607-HD	608 Grp
4	1	235.9	S1BC-608-FL	S1BC-608-HD	S1C-608	S1B-608-FL	S1B-608-HD	608 Grp
4	1	235.9	S1BC-160MM-FL	S1BC-160MM-HD	S1C-608	S1B-160MM-FL	S1B-160MM-HD	608 Grp
4	1	235.9	S1BC-165MM-FL	S1BC-165MM-HD	S1C-608	S1B-165MM-FL	S1B-165MM-HD	608 Grp
4	1	282.9	S1BC-611-FL	S1BC-611-HD	S1C-700	S1B-611-FL	S1B-611-HD	700 Grp
4	1	282.9	S1BC-615-FL	S1BC-615-HD	S1C-700	S1B-615-FL	S1B-615-HD	700 Grp
4	1	282.9	S1BC-700-FL	S1BC-700-HD	S1C-700	S1B-700-FL	S1B-700-HD	700 Grp
4	1	282.9	S1BC-170MM-FL	S1BC-170MM-HD	S1C-700	S1B-170MM-FL	S1B-170MM-HD	700 Grp
4	1	282.9	S1BC-180MM-FL	S1BC-180MM-HD	S1C-700	S1B-180MM-FL	S1B-180MM-HD	700 Grp
4	1	320.9	S1BC-708-FL	S1BC-708-HD	S1C-800	S1B-708-FL	S1B-708-HD	800 Grp
4	1	320.9	S1BC-715-FL	S1BC-715-HD	S1C-800	S1B-715-FL	S1B-715-HD	800 Grp
4	1	320.9	S1BC-800-FL	S1BC-800-HD	S1C-800	S1B-800-FL	S1B-800-HD	800 Grp
4	1	320.9	S1BC-190MM-FL	S1BC-190MM-HD	S1C-800	S1B-190MM-FL	S1B-190MM-HD	800 Grp
4	1	320.9	S1BC-200MM-FL	S1BC-200MM-HD	S1C-800	S1B-200MM-FL	S1B-200MM-HD	800 Grp
4	1 1/4	371.9	S1BC-808-FL	S1BC-808-HD	S1C-900	S1B-808-FL	S1B-808-HD	900 Grp
4	1 1/4	371.9	S1BC-815-FL	S1BC-815-HD	S1C-900	S1B-815-FL	S1B-815-HD	900 Grp
4	1 1/4	371.9	S1BC-900-FL	S1BC-900-HD	S1C-900	S1B-900-FL	S1B-900-HD	900 Grp
4	1 1/4	371.9	S1BC-220MM-FL	S1BC-220MM-HD	S1C-900	S1B-220MM-FL	S1B-220MM-HD	900 Grp
4	1 1/4	511.9	S1BC-908-FL	S1BC-908-HD	S1C-1000	S1B-908-FL	S1B-908-HD	1000 Grp
4	1 1/4	511.9	S1BC-915-FL	S1BC-915-HD	S1C-1000	S1B-915-FL	S1B-915-HD	1000 Grp
4	1 1/4	511.9	S1BC-1000-FL	S1BC-1000-HD	S1C-1000	S1B-1000-FL	S1B-1000-HD	1000 Grp
4	1 1/4	511.9	S1BC-240MM-FL	S1BC-240MM-HD	S1C-1000	S1B-240MM-FL	S1B-240MM-HD	1000 Grp
4	1 1/4	511.9	S1BC-250MM-FL	S1BC-250MM-HD	S1C-1000	S1B-250MM-FL	S1B-250MM-HD	1000 Grp

Split Cylindrical Roller Bearing

S1 series large bore



S1BC...-FL

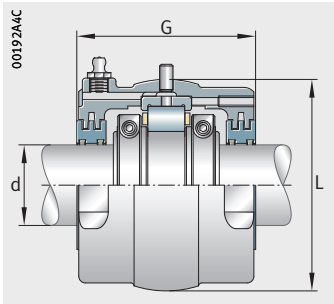
Dimension table (continued) - Dimensions in inch

Shaft diameter		Cartridge assembly						
		Float bearing	Held bearing	Dimension		Grease capacity	Cartridge	
inch	mm			G	L ¹⁾		lbs	
								lbs
6 ^{7/16}	–	S1BC-607-FL	S1BC-607-HD	7 ^{9/16}	12 ^{1/4}	2.10	S1C-608	110.0
6 ^{1/2}	–	S1BC-608-FL	S1BC-608-HD	7 ^{9/16}	12 ^{1/4}	2.10	S1C-608	110.0
–	160	S1BC-160MM-FL	S1BC-160MM-HD	7 ^{9/16}	12 ^{1/4}	2.10	S1C-608	110.0
–	165	S1BC-165MM-FL	S1BC-165MM-HD	7 ^{9/16}	12 ^{1/4}	2.10	S1C-608	110.0
6 ^{11/16}	–	S1BC-611-FL	S1BC-611-HD	7 ^{7/8}	12 ^{3/4}	2.40	S1C-700	137.0
6 ^{15/16}	–	S1BC-615-FL	S1BC-615-HD	7 ^{7/8}	12 ^{3/4}	2.40	S1C-700	137.0
7	–	S1BC-700-FL	S1BC-700-HD	7 ^{7/8}	12 ^{3/4}	2.40	S1C-700	137.0
–	170	S1BC-170MM-FL	S1BC-170MM-HD	7 ^{7/8}	12 ^{3/4}	2.40	S1C-700	137.0
–	180	S1BC-180MM-FL	S1BC-180MM-HD	7 ^{7/8}	12 ^{3/4}	2.40	S1C-700	137.0
7 ^{1/2}	–	S1BC-708-FL	S1BC-708-HD	7 ^{7/8}	14 ^{1/8}	3.20	S1C-800	151.0
7 ^{15/16}	–	S1BC-715-FL	S1BC-715-HD	7 ^{7/8}	14 ^{1/8}	3.20	S1C-800	151.0
8	–	S1BC-800-FL	S1BC-800-HD	7 ^{7/8}	14 ^{1/8}	3.20	S1C-800	151.0
–	190	S1BC-190MM-FL	S1BC-190MM-HD	7 ^{7/8}	14 ^{1/8}	3.20	S1C-800	151.0
–	200	S1BC-200MM-FL	S1BC-200MM-HD	7 ^{7/8}	14 ^{1/8}	3.20	S1C-800	151.0
8 ^{1/2}	–	S1BC-808-FL	S1BC-808-HD	8 ^{1/2}	15 ^{1/4}	3.30	S1C-900	174.0
8 ^{15/16}	–	S1BC-815-FL	S1BC-815-HD	8 ^{1/2}	15 ^{1/4}	3.30	S1C-900	174.0
9	–	S1BC-900-FL	S1BC-900-HD	8 ^{1/2}	15 ^{1/4}	3.30	S1C-900	174.0
–	220	S1BC-220MM-FL	S1BC-220MM-HD	8 ^{1/2}	15 ^{1/4}	3.30	S1C-900	174.0
9 ^{1/2}	–	S1BC-908-FL	S1BC-908-HD	8 ^{3/4}	16 ^{1/2}	4.20	S1C-1000	226.9
9 ^{15/16}	–	S1BC-915-FL	S1BC-915-HD	8 ^{3/4}	16 ^{1/2}	4.20	S1C-1000	226.9
10	–	S1BC-1000-FL	S1BC-1000-HD	8 ^{3/4}	16 ^{1/2}	4.20	S1C-1000	226.9
–	240	S1BC-240MM-FL	S1BC-240MM-HD	8 ^{3/4}	16 ^{1/2}	4.20	S1C-1000	226.9
–	250	S1BC-250MM-FL	S1BC-250MM-HD	8 ^{3/4}	16 ^{1/2}	4.20	S1C-1000	226.9

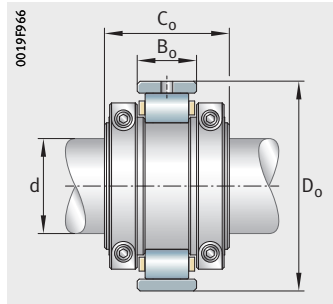
Mounted unit, see page 46.

1) Length through bore.

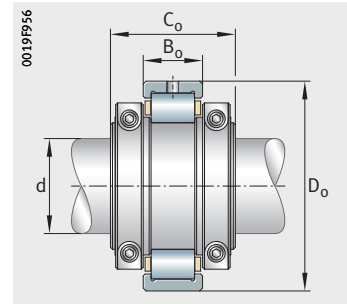
2) Based on axial capacity at 1000 min⁻¹.



S1BC..-HD



S1B..-FL



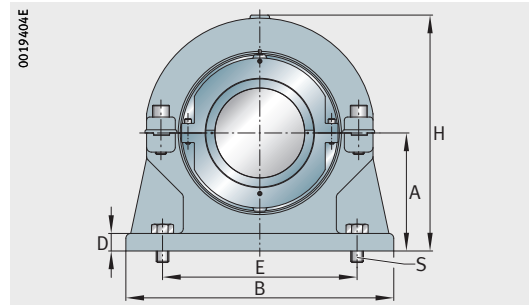
S1B..-HD

Bearing

Float bearing	Held bearing	Bearing rating				Dimension			Weight lbs	Group
		dyn. C _r lbs	stat. C ₀ lbs	axial C _a ²⁾ lbs	max. Speed min ⁻¹	D ₀	C ₀	B ₀		
S1B-607-FL	S1B-607-HD	97 302	159 121	7 997	1 550	10.75	4.291	2.375	47.0	608 Grp
S1B-608-FL	S1B-608-HD	97 302	159 121	7 997	1 550	10.75	4.291	2.375	47.0	608 Grp
S1B-160MM-FL	S1B-160MM-HD	97 302	159 121	7 997	1 550	10.75	4.291	2.375	47.0	608 Grp
S1B-165MM-FL	S1B-165MM-HD	97 302	159 121	7 997	1 550	10.75	4.291	2.375	47.0	608 Grp
S1B-611-FL	S1B-611-HD	104 557	178 165	8 449	1 465	11.25	4.291	2.185	56.0	700 Grp
S1B-615-FL	S1B-615-HD	104 557	178 165	8 449	1 465	11.25	4.291	2.185	56.0	700 Grp
S1B-700-FL	S1B-700-HD	104 557	178 165	8 449	1 465	11.25	4.291	2.185	56.0	700 Grp
S1B-170MM-FL	S1B-170MM-HD	104 557	178 165	8 449	1 465	11.25	4.291	2.185	56.0	700 Grp
S1B-180MM-FL	S1B-180MM-HD	104 557	178 165	8 449	1 465	11.25	4.291	2.185	56.0	700 Grp
S1B-708-FL	S1B-708-HD	110 657	198 533	8 463	1 320	12.25	4.291	2.375	50.0	800 Grp
S1B-715-FL	S1B-715-HD	110 657	198 533	8 463	1 320	12.25	4.291	2.375	50.0	800 Grp
S1B-800-FL	S1B-800-HD	110 657	198 533	8 463	1 320	12.25	4.291	2.375	50.0	800 Grp
S1B-190MM-FL	S1B-190MM-HD	110 657	198 533	8 463	1 320	12.25	4.291	2.375	50.0	800 Grp
S1B-200MM-FL	S1B-200MM-HD	110 657	198 533	8 463	1 320	12.25	4.291	2.375	50.0	800 Grp
S1B-808-FL	S1B-808-HD	121 924	223 177	8 570	1 190	13.5	4.528	2.5	63.0	900 Grp
S1B-815-FL	S1B-815-HD	121 924	223 177	8 570	1 190	13.5	4.528	2.5	63.0	900 Grp
S1B-900-FL	S1B-900-HD	121 924	223 177	8 570	1 190	13.5	4.528	2.5	63.0	900 Grp
S1B-220MM-FL	S1B-220MM-HD	121 924	223 177	8 570	1 190	13.5	4.528	2.5	63.0	900 Grp
S1B-908-FL	S1B-908-HD	136 115	266 420	9 284	1 080	14.75	4.803	2.625	82.0	1000 Grp
S1B-915-FL	S1B-915-HD	136 115	266 420	9 284	1 080	14.75	4.803	2.625	82.0	1000 Grp
S1B-1000-FL	S1B-1000-HD	136 115	266 420	9 284	1 080	14.75	4.803	2.625	82.0	1000 Grp
S1B-240MM-FL	S1B-240MM-HD	136 115	266 420	9 284	1 080	14.75	4.803	2.625	82.0	1000 Grp
S1B-250MM-FL	S1B-250MM-HD	136 115	266 420	9 284	1 080	14.75	4.803	2.625	82.0	1000 Grp

Split Cylindrical Roller Bearing

S1 series large bore



S1BCH...-FL, S1BCH...-HL

Dimension table (continued) - Dimensions in inch

Mounted unit

Shaft diameter d		Complete component		Pedestal housing	Dimension							
		Float bearing	Held bearing		B	H	A ¹⁾	C ²⁾	D	E		F
										min.	max.	
inch	mm											
10 ^{1/2}	–	S1BCH-1008-FL	S1BCH-1008-HD	PH-16	28 ^{1/2}	24 ^{1/2}	12 ^{1/4}	9	17 ^{7/8}	20 ^{1/4}	21 ^{3/4}	5 ^{1/2}
10 ^{15/16}	–	S1BCH-1015-FL	S1BCH-1015-HD	PH-16	28 ^{1/2}	24 ^{1/2}	12 ^{1/4}	9	17 ^{7/8}	20 ^{1/4}	21 ^{3/4}	5 ^{1/2}
11	–	S1BCH-1100-FL	S1BCH-1100-HD	PH-16	28 ^{1/2}	24 ^{1/2}	12 ^{1/4}	9	17 ^{7/8}	20 ^{1/4}	21 ^{3/4}	5 ^{1/2}
–	260	S1BCH-260MM-FL	S1BCH-260MM-HD	PH-16	28 ^{1/2}	24 ^{1/2}	12 ^{1/4}	9	17 ^{7/8}	20 ^{1/4}	21 ^{3/4}	5 ^{1/2}
–	280	S1BCH-280MM-FL	S1BCH-280MM-HD	PH-16	28 ^{1/2}	24 ^{1/2}	12 ^{1/4}	9	17 ^{7/8}	20 ^{1/4}	21 ^{3/4}	5 ^{1/2}
11 ^{1/2}	–	S1BCH-1108-FL	S1BCH-1108-HD	PH-17	30	26 ^{3/4}	13 ^{1/2}	10	2	22 ^{1/4}	23 ^{3/4}	7
11 ^{15/16}	–	S1BCH-1115-FL	S1BCH-1115-HD	PH-17	30	26 ^{3/4}	13 ^{1/2}	10	2	22 ^{1/4}	23 ^{3/4}	7
12	–	S1BCH-1200-FL	S1BCH-1200-HD	PH-17	30	26 ^{3/4}	13 ^{1/2}	10	2	22 ^{1/4}	23 ^{3/4}	7
–	300	S1BCH-300MM-FL	S1BCH-300MM-HD	PH-17	30	26 ^{3/4}	13 ^{1/2}	10	2	22 ^{1/4}	23 ^{3/4}	7
12 ^{1/2}	–	S1BCH-1208-FL	S1BCH-1208-HD	PH-18	32	29	14 ^{1/2}	10	2 ^{1/8}	23 ^{3/4}	25 ^{1/4}	7
13	–	S1BCH-1300-FL	S1BCH-1300-HD	PH-18	32	29	14 ^{1/2}	10	2 ^{1/8}	23 ^{3/4}	25 ^{1/4}	7
–	320	S1BCH-320MM-FL	S1BCH-320MM-HD	PH-18	32	29	14 ^{1/2}	10	2 ^{1/8}	23 ^{3/4}	25 ^{1/4}	7
14	–	S1BCH-1400-FL	S1BCH-1400-HD	PH-19	33 ^{1/2}	30 ^{1/2}	15 ^{1/4}	10	2 ^{1/4}	25	26 ^{1/2}	6 ^{1/2}
–	340	S1BCH-340MM-FL	S1BCH-340MM-HD	PH-19	33 ^{1/2}	30 ^{1/2}	15 ^{1/4}	10	2 ^{1/4}	25	26 ^{1/2}	6 ^{1/2}
15	–	S1BCH-1500-FL	S1BCH-1500-HD	PH-20	35 ^{1/2}	30 ^{1/4}	15 ^{5/8}	10	2 ^{3/8}	25 ^{7/8}	27 ^{3/8}	6 ^{1/2}
–	360	S1BCH-360MM-FL	S1BCH-360MM-HD	PH-20	35 ^{1/2}	30 ^{1/4}	15 ^{5/8}	10	2 ^{3/8}	25 ^{7/8}	27 ^{3/8}	6 ^{1/2}
–	380	S1BCH-380MM-FL	S1BCH-380MM-HD	PH-20	35 ^{1/2}	30 ^{1/4}	15 ^{5/8}	10	2 ^{3/8}	25 ^{7/8}	27 ^{3/8}	6 ^{1/2}
15 ^{3/4}	–	S1BCH-1512-FL	S1BCH-1512-HD	PH-116	37	34 ^{1/16}	17	10	2 ^{5/8}	27 ^{11/16}	29 ^{5/16}	6 ^{9/16}
16	–	S1BCH-1600-FL	S1BCH-1600-HD	PH-116	37	34 ^{1/16}	17	10	2 ^{5/8}	27 ^{11/16}	29 ^{5/16}	6 ^{9/16}
–	400	S1BCH-400MM-FL	S1BCH-400MM-HD	PH-116	37	34 ^{1/16}	17	10	2 ^{5/8}	27 ^{11/16}	29 ^{5/16}	6 ^{9/16}

Special application bearings are available upon request.

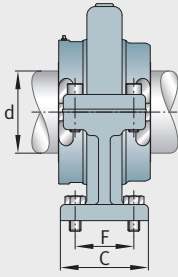
Normal operating temperature for standard bearings is +32 °F to +212 °F.

Cartridge assembly and roller bearing, see page 52.

¹⁾ Base to shaft center height can be altered upon request.

²⁾ Housing width only.

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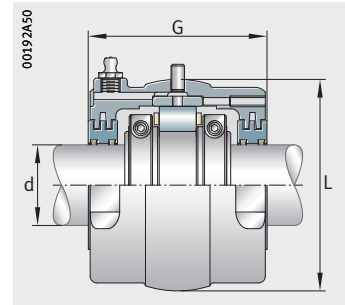


S1BCH..-FL, S1BCH..-HL

Bolt		Weight lbs	Cartridge assembly			Bearing		Group
			Float bearing	Held bearing	Cartridge	Float bearing	Held bearing	
Num-ber	Diam-eter							
4	1 ¹ / ₄	604.8	S1BC-1008-FL	S1BC-1008-HD	S1C-1100	S1B-1008-FL	S1B-1008-HD	1100 Grp
4	1 ¹ / ₄	604.8	S1BC-1015-FL	S1BC-1015-HD	S1C-1100	S1B-1015-FL	S1B-1015-HD	1100 Grp
4	1 ¹ / ₄	604.8	S1BC-1100-FL	S1BC-1100-HD	S1C-1100	S1B-1100-FL	S1B-1100-HD	1100 Grp
4	1 ¹ / ₄	604.8	S1BC-260MM-FL	S1BC-260MM-HD	S1C-1100	S1B-260MM-FL	S1B-260MM-HD	1100 Grp
4	1 ¹ / ₄	604.8	S1BC-280MM-FL	S1BC-280MM-HD	S1C-1100	S1B-280MM-FL	S1B-280MM-HD	1100 Grp
4	1 ¹ / ₄	741.8	S1BC-1108-FL	S1BC-1108-HD	S1C-1200	S1B-1108-FL	S1B-1108-HD	1200 Grp
4	1 ¹ / ₄	741.8	S1BC-1115-FL	S1BC-1115-HD	S1C-1200	S1B-1115-FL	S1B-1115-HD	1200 Grp
4	1 ¹ / ₄	741.8	S1BC-1200-FL	S1BC-1200-HD	S1C-1200	S1B-1200-FL	S1B-1200-HD	1200 Grp
4	1 ¹ / ₄	741.8	S1BC-300MM-FL	S1BC-300MM-HD	S1C-1200	S1B-300MM-FL	S1B-300MM-HD	1200 Grp
4	1 ¹ / ₂	919.7	S1BC-1208-FL	S1BC-1208-HD	S1C-1300	S1B-1208-FL	S1B-1208-HD	1300 Grp
4	1 ¹ / ₂	919.7	S1BC-1300-FL	S1BC-1300-HD	S1C-1300	S1B-1300-FL	S1B-1300-HD	1300 Grp
4	1 ¹ / ₂	919.7	S1BC-320MM-FL	S1BC-320MM-HD	S1C-1300	S1B-320MM-FL	S1B-320MM-HD	1300 Grp
4	1 ¹ / ₂	1 099.7	S1BC-1400-FL	S1BC-1400-HD	S1C-1400	S1B-1400-FL	S1B-1400-HD	1400 Grp
4	1 ¹ / ₂	1 099.7	S1BC-340MM-FL	S1BC-340MM-HD	S1C-1400	S1B-340MM-FL	S1B-340MM-HD	1400 Grp
4	1 ¹ / ₂	1 149.7	S1BC-1500-FL	S1BC-1500-HD	S1C-1500	S1B-1500-FL	S1B-1500-HD	1500 Grp
4	1 ¹ / ₂	1 149.7	S1BC-360MM-FL	S1BC-360MM-HD	S1C-1500	S1B-360MM-FL	S1B-360MM-HD	1500 Grp
4	1 ¹ / ₂	1 149.7	S1BC-380MM-FL	S1BC-380MM-HD	S1C-1500	S1B-380MM-FL	S1B-380MM-HD	1500 Grp
4	1 ¹ / ₂	1 199.7	S1BC-1512-FL	S1BC-1512-HD	S1C-1600	S1B-1512-FL	S1B-1512-HD	1600 Grp
4	1 ¹ / ₂	1 199.7	S1BC-1600-FL	S1BC-1600-HD	S1C-1600	S1B-1600-FL	S1B-1600-HD	1600 Grp
4	1 ¹ / ₂	1 199.7	S1BC-400MM-FL	S1BC-400MM-HD	S1C-1600	S1B-400MM-FL	S1B-400MM-HD	1600 Grp

Split Cylindrical Roller Bearing

S1 series large bore



S1BC...-FL

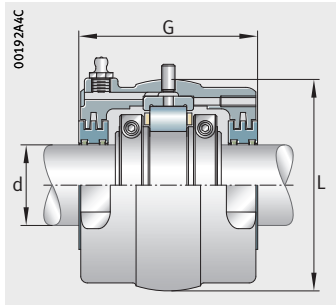
Dimension table (continued) - Dimensions in inch

Shaft diameter		Cartridge assembly						
		Float bearing	Held bearing	Dimension		Grease capacity	Cartridge	
d	G			L ¹⁾	lbs			Weight
inch	mm							lbs
10 ^{1/2}	–	S1BC-1008-FL	S1BC-1008-HD	9 ^{1/8}	177 ^{7/8}	4.20	S1C-1100	278.9
10 ^{15/16}	–	S1BC-1015-FL	S1BC-1015-HD	9 ^{1/8}	177 ^{7/8}	4.20	S1C-1100	278.9
11	–	S1BC-1100-FL	S1BC-1100-HD	9 ^{1/8}	177 ^{7/8}	4.20	S1C-1100	278.9
–	260	S1BC-260MM-FL	S1BC-260MM-HD	9 ^{1/8}	177 ^{7/8}	4.20	S1C-1100	278.9
–	280	S1BC-280MM-FL	S1BC-280MM-HD	9 ^{1/8}	177 ^{7/8}	4.20	S1C-1100	278.9
11 ^{1/2}	–	S1BC-1108-FL	S1BC-1108-HD	9 ^{3/4}	191 ^{1/4}	4.40	S1C-1200	377.9
11 ^{15/16}	–	S1BC-1115-FL	S1BC-1115-HD	9 ^{3/4}	191 ^{1/4}	4.40	S1C-1200	377.9
12	–	S1BC-1200-FL	S1BC-1200-HD	9 ^{3/4}	191 ^{1/4}	4.40	S1C-1200	377.9
–	300	S1BC-300MM-FL	S1BC-300MM-HD	9 ^{3/4}	191 ^{1/4}	4.40	S1C-1200	377.9
12 ^{1/2}	–	S1BC-1208-FL	S1BC-1208-HD	11 ^{3/4}	203 ^{3/4}	6.00	S1C-1300	440.9
13	–	S1BC-1300-FL	S1BC-1300-HD	11 ^{3/4}	203 ^{3/4}	6.00	S1C-1300	440.9
–	320	S1BC-320MM-FL	S1BC-320MM-HD	11 ^{3/4}	203 ^{3/4}	6.00	S1C-1300	440.9
14	–	S1BC-1400-FL	S1BC-1400-HD	10 ^{1/2}	211 ^{1/2}	6.70	S1C-1400	475.9
–	340	S1BC-340MM-FL	S1BC-340MM-HD	10 ^{1/2}	211 ^{1/2}	6.70	S1C-1400	475.9
15	–	S1BC-1500-FL	S1BC-1500-HD	11	221 ^{1/2}	7.00	S1C-1500	485.9
–	360	S1BC-360MM-FL	S1BC-360MM-HD	11	221 ^{1/2}	7.00	S1C-1500	485.9
–	380	S1BC-380MM-FL	S1BC-380MM-HD	11	221 ^{1/2}	7.00	S1C-1500	485.9
15 ^{3/4}	–	S1BC-1512-FL	S1BC-1512-HD	11 ^{1/8}	233 ^{3/4}	8.00	S1C-1600	577.8
16	–	S1BC-1600-FL	S1BC-1600-HD	11 ^{1/8}	233 ^{3/4}	8.00	S1C-1600	577.8
–	400	S1BC-400MM-FL	S1BC-400MM-HD	11 ^{1/8}	233 ^{3/4}	8.00	S1C-1600	577.8

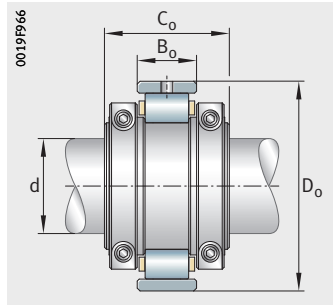
Mounted unit, see page 50.

1) Length through bore.

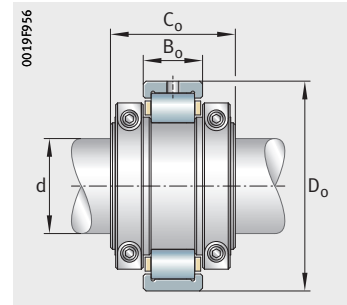
2) Based on axial capacity at 1000 min⁻¹.



S1BC..-HD



S1B..-FL



S1B..-HD

Bearing

Float bearing	Held bearing	Bearing rating				Dimension			Weight lbs	Group
		dyn. C _r lbs	stat. C ₀ lbs	axial C _a ²⁾ lbs	max. Speed min ⁻¹	D ₀	C ₀	B ₀		
S1B-1008-FL	S1B-1008-HD	156 556	303 827	9 683	990	16	5.039	2.719	100.0	1100 Grp
S1B-1015-FL	S1B-1015-HD	156 556	303 827	9 683	990	16	5.039	2.719	100.0	1100 Grp
S1B-1100-FL	S1B-1100-HD	156 556	303 827	9 683	990	16	5.039	2.719	100.0	1100 Grp
S1B-260MM-FL	S1B-260MM-HD	156 556	303 827	9 683	990	16	5.039	2.719	100.0	1100 Grp
S1B-280MM-FL	S1B-280MM-HD	156 556	303 827	9 683	990	16	5.039	2.719	100.0	1100 Grp
S1B-1108-FL	S1B-1108-HD	163 980	331 729	9 747	915	17.25	5.625	2.938	123.0	1200 Grp
S1B-1115-FL	S1B-1115-HD	163 980	331 729	9 747	915	17.25	5.625	2.938	123.0	1200 Grp
S1B-1200-FL	S1B-1200-HD	163 980	331 729	9 747	915	17.25	5.625	2.938	123.0	1200 Grp
S1B-300MM-FL	S1B-300MM-HD	163 980	331 729	9 747	915	17.25	5.625	2.938	123.0	1200 Grp
S1B-1208-FL	S1B-1208-HD	177 900	363 533	10 077	856	18.26	5.352	2.937	126.0	1300 Grp
S1B-1300-FL	S1B-1300-HD	177 900	363 533	10 077	856	18.26	5.352	2.937	126.0	1300 Grp
S1B-320MM-FL	S1B-320MM-HD	177 900	363 533	10 077	856	18.26	5.352	2.937	126.0	1300 Grp
S1B-1400-FL	S1B-1400-HD	176 812	367 777	9 514	805	19.25	5.352	2.937	139.0	1400 Grp
S1B-340MM-FL	S1B-340MM-HD	176 812	367 777	9 514	805	19.25	5.352	2.937	139.0	1400 Grp
S1B-1500-FL	S1B-1500-HD	203 593	436 961	10 545	753	20.5	5.509	3	151.0	1500 Grp
S1B-360MM-FL	S1B-360MM-HD	203 593	436 961	10 545	753	20.5	5.509	3	151.0	1500 Grp
S1B-380MM-FL	S1B-380MM-HD	203 593	436 961	10 545	753	20.5	5.509	3	151.0	1500 Grp
S1B-1512-FL	S1B-1512-HD	205 072	449 734	10 738	713	21.5	5.509	3	160.0	1600 Grp
S1B-1600-FL	S1B-1600-HD	205 072	449 734	10 738	713	21.5	5.509	3	160.0	1600 Grp
S1B-400MM-FL	S1B-400MM-HD	205 072	449 734	10 738	713	21.5	5.509	3	160.0	1600 Grp

S1 Series Load Chart

Maximum speed
Maximum load at speed

Dimension table

Bearing Group	Maximum speed Limit min ⁻¹	Maximum load at speed									
		50 min ⁻¹		100 min ⁻¹		250 min ⁻¹		500 min ⁻¹		750 min ⁻¹	
		P _r	P _a	P _r	P _a	P _r	P _a	P _r	P _a	P _r	P _a
S1-108	5 420	2 997	778	2 434	778	1 849	778	1 502	570	1 330	380
S1-200	4 460	3 952	1 125	3 210	1 125	2 438	1 125	1 961	652	1 754	435
S1-208	3 750	4 376	1 243	3 554	1 243	2 700	1 243	2 193	702	1 942	468
S1-300	3 190	6 447	2 004	5 237	2 004	3 978	1 732	3 231	866	2 861	577
S1-308	2 740	8 113	2 637	6 590	2 637	5 006	1 812	4 066	906	3 600	604
S1-400	2 400	11 065	3 653	8 987	3 653	6 827	2 208	5 546	1 104	4 910	736
S1-408	2 140	13 656	4 731	11 092	4 731	8 426	2 616	6 844	1 308	6 060	872
S1-500	1 940	15 733	5 570	12 779	5 570	9 708	2 740	7 885	1 370	6 982	913
S1-508	1 780	17 436	6 240	14 162	6 240	10 758	2 868	8 739	1 434	7 738	956
S1-600	1 670	18 925	7 088	15 372	7 088	11 678	3 048	9 485	1 524	8 399	1 016
S1-608	1 550	21 012	7 952	17 067	7 952	12 965	3 197	10 531	1 599	9 325	1 066
S1-700	1 465	22 579	8 904	18 340	8 445	13 932	3 378	11 316	1 689	10 020	1 126
S1-800	1 320	23 896	9 922	19 410	8 459	14 745	3 384	11 977	1 692	10 605	1 128
S1-900	1 190	26 329	11 154	21 386	8 566	16 246	3 426	13 196	1 713	11 685	1 142
S1-1000	1 080	29 394	13 315	23 875	9 280	18 137	3 712	14 732	1 856	13 045	1 237
S1-1100	990	33 808	15 185	27 461	9 679	20 861	3 872	16 944	1 936	15 004	1 291
S1-1200	915	35 411	16 579	28 763	9 743	21 850	3 897	17 748	1 949	15 715	1 299
S1-1300	856	38 418	18 169	31 205	10 072	23 705	4 029	19 254	2 014	17 049	1 343
S1-1400	805	38 183	18 381	31 014	9 510	23 560	3 804	19 137	1 902	16 945	1 268
S1-1500	753	43 966	21 080	35 711	10 540	27 128	4 216	22 035	2 108	19 511	1 405
S1-1600	713	44 285	21 466	35 971	10 733	27 326	4 293	22 195	2 147	–	–

Radial load (P_r) limit: $P_r \leq C_r / 1.2 \cdot (16\,667 / (n \cdot L_{10}))^{3/10}$.

Axial load (P_a) limit (group 600 and below): $P_a \leq C_a \cdot 1000/n$ or $P_a \leq 0.05 \cdot C_0$ (whichever is smaller).

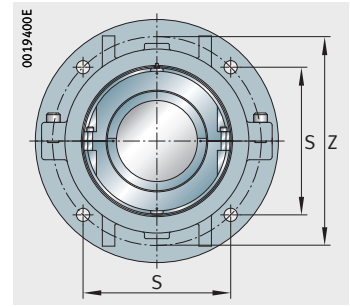
Axial load (P_a) limit (group 608 and above): $P_a \leq C_a \cdot 100/n$ or $P_a \leq 0.05 \cdot C_0$ (whichever is smaller).

The above ratings are based upon a minimum life L₁₀ of 30 000 h, utilization of an EP grease, and a service factor (fd) 1.2.

For legend, see page 10.

1 000 min ⁻¹		1 250 min ⁻¹		1 500 min ⁻¹		2 000 min ⁻¹		2 500 min ⁻¹		3 000 min ⁻¹		3 500 min ⁻¹		4 000 min ⁻¹	
P _r	P _a	P _r	P _a	P _r	P _a	P _r	P _a	P _r	P _a	P _r	P _a	P _r	P _a	P _r	P _a
1 220	285	1 141	228	1 080	190	991	143	927	114	877	95	838	81	805	71
1 609	326	1 505	261	1 424	217	1 307	163	1 222	130	1 157	109	1 105	93	1 061	82
1 781	351	1 666	281	1 577	234	1 447	176	1 353	140	1 281	117	1 223	100	-	-
2 625	433	2 455	346	2 324	289	2 132	217	1 994	173	1 888	144	-	-	-	-
3 303	453	3 089	362	2 924	302	2 683	227	2 509	181	-	-	-	-	-	-
4 504	552	4 213	442	3 988	368	3 659	276	-	-	-	-	-	-	-	-
5 559	654	5 199	523	4 922	436	4 515	327	-	-	-	-	-	-	-	-
6 405	685	5 990	548	5 671	457	-	-	-	-	-	-	-	-	-	-
7 098	717	6 638	574	6 285	478	-	-	-	-	-	-	-	-	-	-
7 704	762	7 205	610	6 822	508	-	-	-	-	-	-	-	-	-	-
8 554	799	8 000	639	7 574	533	-	-	-	-	-	-	-	-	-	-
9 192	845	8 597	676	-	-	-	-	-	-	-	-	-	-	-	-
9 728	846	9 098	677	-	-	-	-	-	-	-	-	-	-	-	-
10 718	857	-	-	-	-	-	-	-	-	-	-	-	-	-	-
11 966	928	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

S1 Series Small Bore Flange Block

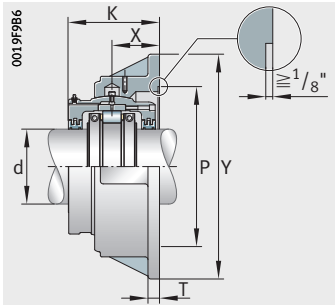


Dimension table - Dimensions in inch

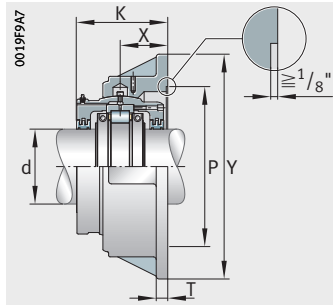
Shaft diameter d		Complete component		Flange housing	Dimension	
		Float bearing	Held bearing		Y	K
inch	mm					
2 ³ / ₁₆	–	S1BCF-203-FL	S1BCF-203-HD	FH-3	10 ¹ / ₄	4 ¹¹ / ₁₆
2 ¹ / ₄	–	S1BCF-204-FL	S1BCF-204-HD	FH-3	10 ¹ / ₄	4 ¹¹ / ₁₆
2 ⁷ / ₁₆	–	S1BCF-207-FL	S1BCF-207-HD	FH-3	10 ¹ / ₄	4 ¹¹ / ₁₆
2 ¹ / ₂	–	S1BCF-208-FL	S1BCF-208-HD	FH-3	10 ¹ / ₄	4 ¹¹ / ₁₆
–	55	S1BCF-55MM-FL	S1BCF-55MM-HD	FH-3	10 ¹ / ₄	4 ¹¹ / ₁₆
–	60	S1BCF-60MM-FL	S1BCF-60MM-HD	FH-3	10 ¹ / ₄	4 ¹¹ / ₁₆
–	65	S1BCF-65MM-FL	S1BCF-65MM-HD	FH-3	10 ¹ / ₄	4 ¹¹ / ₁₆
2 ¹¹ / ₁₆	–	S1BCF-211-FL	S1BCF-211-HD	FH-4	11 ¹ / ₄	5 ¹ / ₈
2 ³ / ₄	–	S1BCF-212-FL	S1BCF-212-HD	FH-4	11 ¹ / ₄	5 ¹ / ₈
2 ¹⁵ / ₁₆	–	S1BCF-215-FL	S1BCF-215-HD	FH-4	11 ¹ / ₄	5 ¹ / ₈
3	–	S1BCF-300-FL	S1BCF-300-HD	FH-4	11 ¹ / ₄	5 ¹ / ₈
–	70	S1BCF-70MM-FL	S1BCF-70MM-HD	FH-4	11 ¹ / ₄	5 ¹ / ₈
–	75	S1BCF-75MM-FL	S1BCF-75MM-HD	FH-4	11 ¹ / ₄	5 ¹ / ₈
3 ³ / ₁₆	–	S1BCF-303-FL	S1BCF-303-HD	FH-5	13	5 ¹³ / ₁₆
3 ¹ / ₄	–	S1BCF-304-FL	S1BCF-304-HD	FH-5	13	5 ¹³ / ₁₆
3 ⁷ / ₁₆	–	S1BCF-307-FL	S1BCF-307-HD	FH-5	13	5 ¹³ / ₁₆
3 ¹ / ₂	–	S1BCF-308-FL	S1BCF-308-HD	FH-5	13	5 ¹³ / ₁₆
–	80	S1BCF-80MM-FL	S1BCF-80MM-HD	FH-5	13	5 ¹³ / ₁₆
–	85	S1BCF-85MM-FL	S1BCF-85MM-HD	FH-5	13	5 ¹³ / ₁₆
–	90	S1BCF-90MM-FL	S1BCF-90MM-HD	FH-5	13	5 ¹³ / ₁₆
3 ¹¹ / ₁₆	–	S1BCF-311-FL	S1BCF-311-HD	FH-6	14	6
3 ³ / ₄	–	S1BCF-312-FL	S1BCF-312-HD	FH-6	14	6
3 ¹⁵ / ₁₆	–	S1BCF-315-FL	S1BCF-315-HD	FH-6	14	6
4	–	S1BCF-400-FL	S1BCF-400-HD	FH-6	14	6
–	100	S1BCF-100MM-FL	S1BCF-100MM-HD	FH-6	14	6
–	105	S1BCF-105MM-FL	S1BCF-105MM-HD	FH-6	14	6

Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.



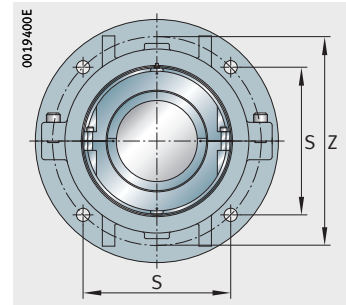
S1BCF.-FL



S1BCF.-HD

X	Z	S	T	P	Bolt		Weight lbs
					Number	Diameter	
2 ⁵ / ₈	8 ⁹ / ₁₆	6 ¹ / ₁₆	5/ ₈	6 ⁹ / ₁₆	4	1/ ₂	37.0
2 ⁵ / ₈	8 ⁹ / ₁₆	6 ¹ / ₁₆	5/ ₈	6 ⁹ / ₁₆	4	1/ ₂	37.0
2 ⁵ / ₈	8 ⁹ / ₁₆	6 ¹ / ₁₆	5/ ₈	6 ⁹ / ₁₆	4	1/ ₂	37.0
2 ⁵ / ₈	8 ⁹ / ₁₆	6 ¹ / ₁₆	5/ ₈	6 ⁹ / ₁₆	4	1/ ₂	37.0
2 ⁵ / ₈	8 ⁹ / ₁₆	6 ¹ / ₁₆	5/ ₈	6 ⁹ / ₁₆	4	1/ ₂	37.0
2 ⁵ / ₈	8 ⁹ / ₁₆	6 ¹ / ₁₆	5/ ₈	6 ⁹ / ₁₆	4	1/ ₂	37.0
2 ⁵ / ₈	8 ⁹ / ₁₆	6 ¹ / ₁₆	5/ ₈	6 ⁹ / ₁₆	4	1/ ₂	37.0
2 ⁷ / ₈	9 ⁹ / ₁₆	6 ³ / ₄	5/ ₈	7 ⁹ / ₁₆	4	1/ ₂	53.0
2 ⁷ / ₈	9 ⁹ / ₁₆	6 ³ / ₄	5/ ₈	7 ⁹ / ₁₆	4	1/ ₂	53.0
2 ⁷ / ₈	9 ⁹ / ₁₆	6 ³ / ₄	5/ ₈	7 ⁹ / ₁₆	4	1/ ₂	53.0
2 ⁷ / ₈	9 ⁹ / ₁₆	6 ³ / ₄	5/ ₈	7 ⁹ / ₁₆	4	1/ ₂	53.0
2 ⁷ / ₈	9 ⁹ / ₁₆	6 ³ / ₄	5/ ₈	7 ⁹ / ₁₆	4	1/ ₂	53.0
2 ⁷ / ₈	9 ⁹ / ₁₆	6 ³ / ₄	5/ ₈	7 ⁹ / ₁₆	4	1/ ₂	53.0
3 ¹ / ₈	10 ³ / ₄	7 ⁵ / ₈	3/ ₄	8 ¹ / ₂	4	1/ ₂	80.0
3 ¹ / ₈	10 ³ / ₄	7 ⁵ / ₈	3/ ₄	8 ¹ / ₂	4	1/ ₂	80.0
3 ¹ / ₈	10 ³ / ₄	7 ⁵ / ₈	3/ ₄	8 ¹ / ₂	4	1/ ₂	80.0
3 ¹ / ₈	10 ³ / ₄	7 ⁵ / ₈	3/ ₄	8 ¹ / ₂	4	1/ ₂	80.0
3 ¹ / ₈	10 ³ / ₄	7 ⁵ / ₈	3/ ₄	8 ¹ / ₂	4	1/ ₂	80.0
3 ¹ / ₈	10 ³ / ₄	7 ⁵ / ₈	3/ ₄	8 ¹ / ₂	4	1/ ₂	80.0
3 ¹ / ₈	10 ³ / ₄	7 ⁵ / ₈	3/ ₄	8 ¹ / ₂	4	1/ ₂	80.0
3 ¹ / ₈	10 ³ / ₄	7 ⁵ / ₈	3/ ₄	8 ¹ / ₂	4	1/ ₂	80.0
3 ³ / ₈	11 ⁷ / ₈	8 ³ / ₈	3/ ₄	9 ⁵ / ₈	4	5/ ₈	94.0
3 ³ / ₈	11 ⁷ / ₈	8 ³ / ₈	3/ ₄	9 ⁵ / ₈	4	5/ ₈	94.0
3 ³ / ₈	11 ⁷ / ₈	8 ³ / ₈	3/ ₄	9 ⁵ / ₈	4	5/ ₈	94.0
3 ³ / ₈	11 ⁷ / ₈	8 ³ / ₈	3/ ₄	9 ⁵ / ₈	4	5/ ₈	94.0
3 ³ / ₈	11 ⁷ / ₈	8 ³ / ₈	3/ ₄	9 ⁵ / ₈	4	5/ ₈	94.0
3 ³ / ₈	11 ⁷ / ₈	8 ³ / ₈	3/ ₄	9 ⁵ / ₈	4	5/ ₈	94.0

S1 Series Small Bore Flange Block

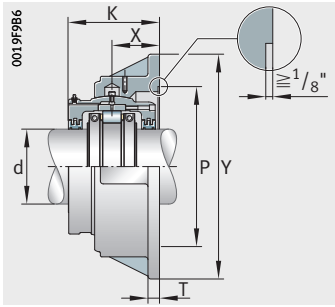


Dimension table (continued) - Dimensions in inch

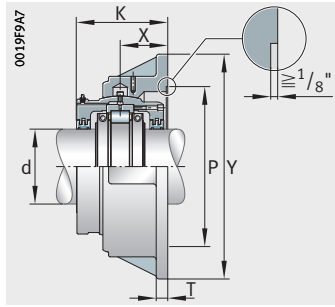
Shaft diameter d		Complete component		Flange housing	Dimension	
		Float bearing	Held bearing		Y	K
inch	mm					
$4\frac{3}{16}$	–	S1BCF-403-FL	S1BCF-403-HD	FH-7	15	$6\frac{7}{16}$
$4\frac{1}{4}$	–	S1BCF-404-FL	S1BCF-404-HD	FH-7	15	$6\frac{7}{16}$
$4\frac{7}{16}$	–	S1BCF-407-FL	S1BCF-407-HD	FH-7	15	$6\frac{7}{16}$
$4\frac{1}{2}$	–	S1BCF-408-FL	S1BCF-408-HD	FH-7	15	$6\frac{7}{16}$
–	110	S1BCF-110MM-FL	S1BCF-110MM-HD	FH-7	15	$6\frac{7}{16}$
–	115	S1BCF-115MM-FL	S1BCF-115MM-HD	FH-7	15	$6\frac{7}{16}$
$4\frac{11}{16}$	–	S1BCF-411-FL	S1BCF-411-HD	FH-8	17	$6\frac{15}{16}$
$4\frac{3}{4}$	–	S1BCF-412-FL	S1BCF-412-HD	FH-8	17	$6\frac{15}{16}$
$4\frac{15}{16}$	–	S1BCF-415-FL	S1BCF-415-HD	FH-8	17	$6\frac{15}{16}$
5	–	S1BCF-500-FL	S1BCF-500-HD	FH-8	17	$6\frac{15}{16}$
–	120	S1BCF-120MM-FL	S1BCF-120MM-HD	FH-8	17	$6\frac{15}{16}$
–	125	S1BCF-125MM-FL	S1BCF-125MM-HD	FH-8	17	$6\frac{15}{16}$
–	130	S1BCF-130MM-FL	S1BCF-130MM-HD	FH-8	17	$6\frac{15}{16}$
$5\frac{3}{16}$	–	S1BCF-503-FL	S1BCF-503-HD	FH-9	$17\frac{1}{2}$	$7\frac{1}{8}$
$5\frac{1}{4}$	–	S1BCF-504-FL	S1BCF-504-HD	FH-9	$17\frac{1}{2}$	$7\frac{1}{8}$
$5\frac{7}{16}$	–	S1BCF-507-FL	S1BCF-507-HD	FH-9	$17\frac{1}{2}$	$7\frac{1}{8}$
$5\frac{1}{2}$	–	S1BCF-508-FL	S1BCF-508-HD	FH-9	$17\frac{1}{2}$	$7\frac{1}{8}$
–	135	S1BCF-135MM-FL	S1BCF-135MM-HD	FH-9	$17\frac{1}{2}$	$7\frac{1}{8}$
–	140	S1BCF-140MM-FL	S1BCF-140MM-HD	FH-9	$17\frac{1}{2}$	$7\frac{1}{8}$
$5\frac{15}{16}$	–	S1BCF-515-FL	S1BCF-515-HD	FH-10	$18\frac{1}{2}$	$7\frac{15}{16}$
6	–	S1BCF-600-FL	S1BCF-600-HD	FH-10	$18\frac{1}{2}$	$7\frac{15}{16}$
–	150	S1BCF-150MM-FL	S1BCF-150MM-HD	FH-10	$18\frac{1}{2}$	$7\frac{15}{16}$
–	155	S1BCF-155MM-FL	S1BCF-155MM-HD	FH-10	$18\frac{1}{2}$	$7\frac{15}{16}$
–	160	S1BCF-160/600MM-FL	S1BCF-160/600MM-HD	FH-10	$18\frac{1}{2}$	$7\frac{15}{16}$

Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.



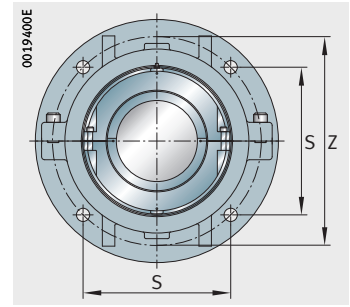
S1BCF.-FL



S1BCF.-HD

X	Z	S	T	P	Bolt		Weight lbs
					Number	Diameter	
3 ⁵ / ₈	13 ¹ / ₈	9 ¹ / ₄	7/ ₈	10 ⁷ / ₈	4	5/ ₈	122.0
3 ⁵ / ₈	13 ¹ / ₈	9 ¹ / ₄	7/ ₈	10 ⁷ / ₈	4	5/ ₈	122.0
3 ⁵ / ₈	13 ¹ / ₈	9 ¹ / ₄	7/ ₈	10 ⁷ / ₈	4	5/ ₈	122.0
3 ⁵ / ₈	13 ¹ / ₈	9 ¹ / ₄	7/ ₈	10 ⁷ / ₈	4	5/ ₈	122.0
3 ⁵ / ₈	13 ¹ / ₈	9 ¹ / ₄	7/ ₈	10 ⁷ / ₈	4	5/ ₈	122.0
3 ⁵ / ₈	13 ¹ / ₈	9 ¹ / ₄	7/ ₈	10 ⁷ / ₈	4	5/ ₈	122.0
3 ⁷ / ₈	15 ¹ / ₈	10 ¹¹ / ₁₆	1	12 ¹ / ₂	4	7/ ₈	165.0
3 ⁷ / ₈	15 ¹ / ₈	10 ¹¹ / ₁₆	1	12 ¹ / ₂	4	7/ ₈	165.0
3 ⁷ / ₈	15 ¹ / ₈	10 ¹¹ / ₁₆	1	12 ¹ / ₂	4	7/ ₈	165.0
3 ⁷ / ₈	15 ¹ / ₈	10 ¹¹ / ₁₆	1	12 ¹ / ₂	4	7/ ₈	165.0
3 ⁷ / ₈	15 ¹ / ₈	10 ¹¹ / ₁₆	1	12 ¹ / ₂	4	7/ ₈	165.0
3 ⁷ / ₈	15 ¹ / ₈	10 ¹¹ / ₁₆	1	12 ¹ / ₂	4	7/ ₈	165.0
3 ⁷ / ₈	15 ¹ / ₈	10 ¹¹ / ₁₆	1	12 ¹ / ₂	4	7/ ₈	180.9
3 ⁷ / ₈	15 ¹ / ₈	10 ¹¹ / ₁₆	1	12 ¹ / ₂	4	7/ ₈	180.9
3 ⁷ / ₈	15 ¹ / ₈	10 ¹¹ / ₁₆	1	12 ¹ / ₂	4	7/ ₈	180.9
3 ⁷ / ₈	15 ¹ / ₈	10 ¹¹ / ₁₆	1	12 ¹ / ₂	4	7/ ₈	180.9
3 ⁷ / ₈	15 ¹ / ₈	10 ¹¹ / ₁₆	1	12 ¹ / ₂	4	7/ ₈	180.9
3 ⁷ / ₈	15 ¹ / ₈	10 ¹¹ / ₁₆	1	12 ¹ / ₂	4	7/ ₈	180.9
4 ¹ / ₂	16 ¹ / ₄	11 ¹ / ₂	1	13 ⁵ / ₈	4	1	214.9
4 ¹ / ₂	16 ¹ / ₄	11 ¹ / ₂	1	13 ⁵ / ₈	4	1	214.9
4 ¹ / ₂	16 ¹ / ₄	11 ¹ / ₂	1	13 ⁵ / ₈	4	1	214.9
4 ¹ / ₂	16 ¹ / ₄	11 ¹ / ₂	1	13 ⁵ / ₈	4	1	214.9
4 ¹ / ₂	16 ¹ / ₄	11 ¹ / ₂	1	13 ⁵ / ₈	4	1	214.9

S1 Series Large Bore Flange Block

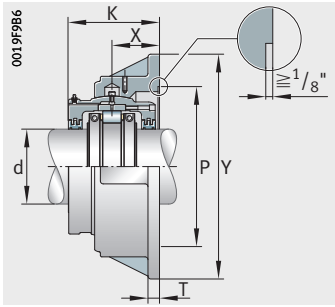


Dimension table - Dimensions in inch

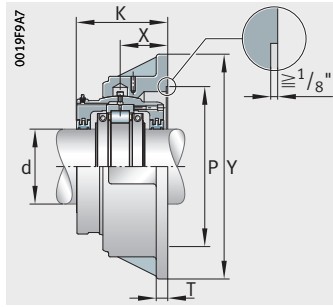
Shaft diameter d		Complete component		Flange housing	Dimension		
		Float bearing	Held bearing		Y	K	
inch	mm						
6 ⁷ / ₁₆	–	S1BCF-607-FL	S1BCF-607-HD	FH-11	19 ¹ / ₂	7 ¹⁵ / ₁₆	
6 ¹ / ₂	–	S1BCF-608-FL	S1BCF-608-HD	FH-11	19 ¹ / ₂	7 ¹⁵ / ₁₆	
–	160	S1BCF-160MM-FL	S1BCF-160MM-HD	FH-11	19 ¹ / ₂	7 ¹⁵ / ₁₆	
–	165	S1BCF-165MM-FL	S1BCF-165MM-HD	FH-11	19 ¹ / ₂	7 ¹⁵ / ₁₆	
6 ¹⁵ / ₁₆	–	S1BCF-615-FL	S1BCF-615-HD	FH-12	20	8 ³ / ₁₆	
7	–	S1BCF-700-FL	S1BCF-700-HD	FH-12	20	8 ³ / ₁₆	
–	170	S1BCF-170MM-FL	S1BCF-170MM-HD	FH-12	20	8 ³ / ₁₆	
–	180	S1BCF-180MM-FL	S1BCF-180MM-HD	FH-12	20	8 ³ / ₁₆	
–	–	S1BCF-611-FL	S1BCF-611-HD	FH-12	20	8 ³ / ₁₆	
7 ¹ / ₂	–	S1BCF-708-FL	S1BCF-708-HD	FH-13	21	8 ³ / ₁₆	
7 ¹⁵ / ₁₆	–	S1BCF-715-FL	S1BCF-715-HD	FH-13	21	8 ³ / ₁₆	
8	–	S1BCF-800-FL	S1BCF-800-HD	FH-13	21	8 ³ / ₁₆	
–	190	S1BCF-190MM-FL	S1BCF-190MM-HD	FH-13	21	8 ³ / ₁₆	
–	200	S1BCF-200MM-FL	S1BCF-200MM-HD	FH-13	21	8 ³ / ₁₆	
8 ¹ / ₂	–	S1BCF-808-FL	S1BCF-808-HD	FH-14	23	8 ⁷ / ₈	
8 ¹⁵ / ₁₆	–	S1BCF-815-FL	S1BCF-815-HD	FH-14	23	8 ⁷ / ₈	
9	–	S1BCF-900-FL	S1BCF-900-HD	FH-14	23	8 ⁷ / ₈	
–	220	S1BCF-220MM-FL	S1BCF-220MM-HD	FH-14	23	8 ⁷ / ₈	
9 ¹ / ₂	–	S1BCF-908-FL	S1BCF-908-HD	FH-15	24	9	
9 ¹⁵ / ₁₆	–	S1BCF-915-FL	S1BCF-915-HD	FH-15	24	9	
10	–	S1BCF-1000-FL	S1BCF-1000-HD	FH-15	24	9	
–	240	S1BCF-240MM-FL	S1BCF-240MM-HD	FH-15	24	9	
–	250	S1BCF-250MM-FL	S1BCF-250MM-HD	FH-15	24	9	

Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.



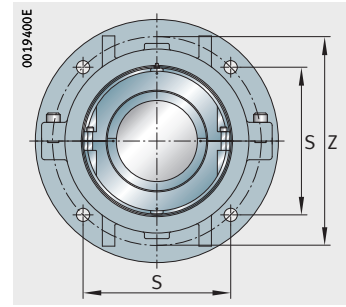
S1BCF.-FL



S1BCF.-HD

X	Z	S	T	P	Bolt		Weight lbs
					Number	Diameter	
4 ¹ / ₈	16 ³ / ₄	11 ⁷ / ₈	1	13 ⁷ / ₈	4	1	241.9
4 ¹ / ₈	16 ³ / ₄	11 ⁷ / ₈	1	13 ⁷ / ₈	4	1	241.9
4 ¹ / ₈	16 ³ / ₄	11 ⁷ / ₈	1	13 ⁷ / ₈	4	1	241.9
4 ¹ / ₈	16 ³ / ₄	11 ⁷ / ₈	1	13 ⁷ / ₈	4	1	241.9
4 ¹ / ₄	17 ¹ / ₄	12 ³ / ₁₆	1 ¹ / ₈	14 ³ / ₈	4	1	264.9
4 ¹ / ₄	17 ¹ / ₄	12 ³ / ₁₆	1 ¹ / ₈	14 ³ / ₈	4	1	264.9
4 ¹ / ₄	17 ¹ / ₄	12 ³ / ₁₆	1 ¹ / ₈	14 ³ / ₈	4	1	264.9
4 ¹ / ₄	17 ¹ / ₄	12 ³ / ₁₆	1 ¹ / ₈	14 ³ / ₈	4	1	264.9
4 ¹ / ₄	18 ⁵ / ₈	13 ³ / ₁₆	1 ¹ / ₄	15 ³ / ₄	4	1	305.9
4 ¹ / ₄	18 ⁵ / ₈	13 ³ / ₁₆	1 ¹ / ₄	15 ³ / ₄	4	1	305.9
4 ¹ / ₄	18 ⁵ / ₈	13 ³ / ₁₆	1 ¹ / ₄	15 ³ / ₄	4	1	305.9
4 ¹ / ₄	18 ⁵ / ₈	13 ³ / ₁₆	1 ¹ / ₄	15 ³ / ₄	4	1	305.9
4 ¹ / ₄	18 ⁵ / ₈	13 ³ / ₁₆	1 ¹ / ₄	15 ³ / ₄	4	1	305.9
4 ⁵ / ₈	20 ¹ / ₈	14 ¹ / ₄	1 ³ / ₈	17	4	1 ¹ / ₄	364.9
4 ⁵ / ₈	20 ¹ / ₈	14 ¹ / ₄	1 ³ / ₈	17	4	1 ¹ / ₄	364.9
4 ⁵ / ₈	20 ¹ / ₈	14 ¹ / ₄	1 ³ / ₈	17	4	1 ¹ / ₄	364.9
4 ⁵ / ₈	20 ¹ / ₈	14 ¹ / ₄	1 ³ / ₈	17	4	1 ¹ / ₄	364.9
4 ⁵ / ₈	21 ³ / ₈	15 ¹ / ₁₆	1 ³ / ₈	18 ¹ / ₄	4	1 ¹ / ₄	406.9
4 ⁵ / ₈	21 ³ / ₈	15 ¹ / ₁₆	1 ³ / ₈	18 ¹ / ₄	4	1 ¹ / ₄	406.9
4 ⁵ / ₈	21 ³ / ₈	15 ¹ / ₁₆	1 ³ / ₈	18 ¹ / ₄	4	1 ¹ / ₄	406.9
4 ⁵ / ₈	21 ³ / ₈	15 ¹ / ₁₆	1 ³ / ₈	18 ¹ / ₄	4	1 ¹ / ₄	406.9
4 ⁵ / ₈	21 ³ / ₈	15 ¹ / ₁₆	1 ³ / ₈	18 ¹ / ₄	4	1 ¹ / ₄	406.9

S1 Series Large Bore Flange Block

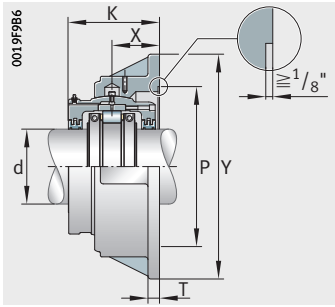


Dimension table (continued) - Dimensions in inch

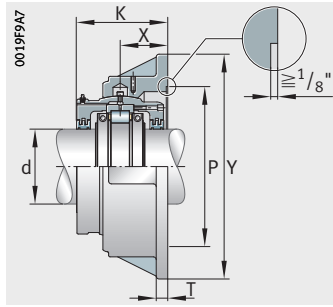
Shaft diameter d		Complete component		Flange housing	Dimension	
		Float bearing	Held bearing		Y	K
inch	mm					
10 ^{1/2}	–	S1BCF-1008-FL	S1BCF-1008-HD	FH-16	26	9 ^{7/16}
10 ^{15/16}	–	S1BCF-1015-FL	S1BCF-1015-HD	FH-16	26	9 ^{7/16}
11	–	S1BCF-1100-FL	S1BCF-1100-HD	FH-16	26	9 ^{7/16}
–	260	S1BCF-260MM-FL	S1BCF-260MM-HD	FH-16	26	9 ^{7/16}
–	280	S1BCF-280MM-FL	S1BCF-280MM-HD	FH-16	26	9 ^{7/16}
11 ^{1/2}	–	S1BCF-1108-FL	S1BCF-1108-HD	FH-17	28	10 ^{1/8}
11 ^{15/16}	–	S1BCF-1115-FL	S1BCF-1115-HD	FH-17	28	10 ^{1/8}
12	–	S1BCF-1200-FL	S1BCF-1200-HD	FH-17	28	10 ^{1/8}
–	300	S1BCF-300MM-FL	S1BCF-300MM-HD	FH-17	28	10 ^{1/8}
12 ^{1/2}	–	S1BCF-1208-FL	S1BCF-1208-HD	FH-18	32	11 ^{3/8}
13	–	S1BCF-1300-FL	S1BCF-1300-HD	FH-18	32	11 ^{3/8}
–	320	S1BCF-320MM-FL	S1BCF-320MM-HD	FH-18	32	11 ^{3/8}
14	–	S1BCF-1400-FL	S1BCF-1400-HD	FH-19	33 ^{1/2}	10 ^{7/8}
–	340	S1BCF-340MM-FL	S1BCF-340MM-HD	FH-19	33 ^{1/2}	10 ^{7/8}
15	–	S1BCF-1500-FL	S1BCF-1500-HD	FH-115	36	12
16	–	S1BCF-1600-FL	S1BCF-1600-HD	FH-116	36	12 ^{1/8}
–	360	S1BCF-360MM-FL	S1BCF-360MM-HD	FH-115	36	12
–	380	S1BCF-380MM-FL	S1BCF-380MM-HD	FH-115	36	12
–	400	S1BCF-400MM-FL	S1BCF-400MM-HD	FH-116	36	12 ^{1/8}

Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.



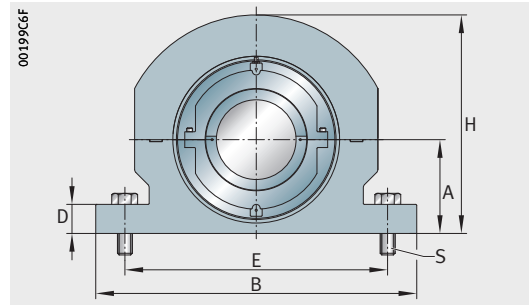
S1BCF..-FL



S1BCF..-HD

X	Z	S	T	P	Bolt		Weight lbs
					Number	Diameter	
4 ⁷ / ₈	23	16 ¹ / ₄	1 ¹ / ₂	19 ⁷ / ₈	4	1 ¹ / ₄	520.9
4 ⁷ / ₈	23	16 ¹ / ₄	1 ¹ / ₂	19 ⁷ / ₈	4	1 ¹ / ₄	520.9
4 ⁷ / ₈	23	16 ¹ / ₄	1 ¹ / ₂	19 ⁷ / ₈	4	1 ¹ / ₄	520.9
4 ⁷ / ₈	23	16 ¹ / ₄	1 ¹ / ₂	19 ⁷ / ₈	4	1 ¹ / ₄	520.9
4 ⁷ / ₈	23	16 ¹ / ₄	1 ¹ / ₂	19 ⁷ / ₈	4	1 ¹ / ₄	520.9
5 ¹ / ₄	24 ⁵ / ₈	17 ⁷ / ₁₆	1 ¹ / ₂	21 ¹ / ₄	4	1 ¹ / ₄	641.8
5 ¹ / ₄	24 ⁵ / ₈	17 ⁷ / ₁₆	1 ¹ / ₂	21 ¹ / ₄	4	1 ¹ / ₄	641.8
5 ¹ / ₄	24 ⁵ / ₈	17 ⁷ / ₁₆	1 ¹ / ₂	21 ¹ / ₄	4	1 ¹ / ₄	641.8
5 ¹ / ₄	24 ⁵ / ₈	17 ⁷ / ₁₆	1 ¹ / ₂	21 ¹ / ₄	4	1 ¹ / ₄	641.8
6	27 ¹ / ₂	19 ⁷ / ₁₆	1 ¹ / ₂	23	4	1 ¹ / ₂	839.8
6	27 ¹ / ₂	19 ⁷ / ₁₆	1 ¹ / ₂	23	4	1 ¹ / ₂	839.8
6	27 ¹ / ₂	19 ⁷ / ₁₆	1 ¹ / ₂	23	4	1 ¹ / ₂	839.8
5 ¹ / ₂	29	20 ¹ / ₂	1 ⁵ / ₈	24	4	1 ¹ / ₂	819.8
5 ¹ / ₂	29	20 ¹ / ₂	1 ⁵ / ₈	24	4	1 ¹ / ₂	819.8
6 ¹ / ₂	31 ¹ / ₂	22 ⁹ / ₃₂	1 ³ / ₄	26 ¹ / ₂	8	1 ¹ / ₄	1 089.7
6 ¹ / ₂	31 ¹ / ₂	22 ⁹ / ₃₂	1 ³ / ₄	26 ¹ / ₂	8	1 ¹ / ₄	1 109.7
6 ¹ / ₂	31 ¹ / ₂	22 ⁹ / ₃₂	1 ³ / ₄	26 ¹ / ₂	8	1 ¹ / ₄	1 089.7
6 ¹ / ₂	31 ¹ / ₂	22 ⁹ / ₃₂	1 ³ / ₄	26 ¹ / ₂	8	1 ¹ / ₄	1 089.7
6 ¹ / ₂	31 ¹ / ₂	22 ⁹ / ₃₂	1 ³ / ₄	26 ¹ / ₂	8	1 ¹ / ₄	1 109.7

SN Compatible Blocks



Dimension table · Dimensions in inch

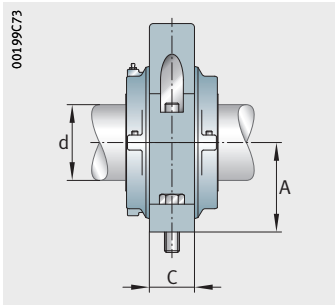
Shaft diameter d		Complete component		Pedestal housing	Dimension	
		Float bearing	Held bearing		A ¹⁾	B
inch	mm					
3 ¹¹ / ₁₆	–	S1SNLH-311-FL	S1SNLH-311-HD	SNLH-6	4 ¹⁵ / ₁₆	16 ¹ / ₈
3 ³ / ₄	–	S1SNLH-312-FL	S1SNLH-312-HD	SNLH-6	4 ¹⁵ / ₁₆	16 ¹ / ₈
3 ¹⁵ / ₁₆	–	S1SNLH-315-FL	S1SNLH-315-HD	SNLH-6	4 ¹⁵ / ₁₆	16 ¹ / ₈
4	–	S1SNLH-400-FL	S1SNLH-400-HD	SNLH-6	4 ¹⁵ / ₁₆	16 ¹ / ₈
–	100	S1SNLH-100MM-FL	S1SNLH-100MM-HD	SNLH-6	4 ¹⁵ / ₁₆	16 ¹ / ₈
–	105	S1SNLH-105MM-FL	S1SNLH-105MM-HD	SNLH-6	4 ¹⁵ / ₁₆	16 ¹ / ₈
4 ³ / ₁₆	–	S1SNLH-403-FL	S1SNLH-403-HD	SNLH-7	4 ⁷ / ₈	14 ⁷ / ₈
4 ¹ / ₄	–	S1SNLH-404-FL	S1SNLH-404-HD	SNLH-7	4 ⁷ / ₈	14 ⁷ / ₈
4 ⁷ / ₁₆	–	S1SNLH-407-FL	S1SNLH-407-HD	SNLH-7	4 ⁷ / ₈	14 ⁷ / ₈
4 ¹ / ₂	–	S1SNLH-408-FL	S1SNLH-408-HD	SNLH-7	4 ⁷ / ₈	14 ⁷ / ₈
–	100	S1SNLH-110MM-FL	S1SNLH-110MM-HD	SNLH-7	4 ⁷ / ₈	14 ⁷ / ₈
–	115	S1SNLH-115MM-FL	S1SNLH-115MM-HD	SNLH-7	4 ⁷ / ₈	14 ⁷ / ₈
4 ³ / ₁₆	–	S1SNLH-403-FL-2B	S1SNLH-403-HD-2B	SNLH-7-2B	5 ¹ / ₂	16 ¹ / ₈
4 ¹ / ₄	–	S1SNLH-404-FL-2B	S1SNLH-404-HD-2B	SNLH-7-2B	5 ¹ / ₂	16 ¹ / ₈
4 ⁷ / ₁₆	–	S1SNLH-407-FL-2B	S1SNLH-407-HD-2B	SNLH-7-2B	5 ¹ / ₂	16 ¹ / ₈
4 ¹ / ₂	–	S1SNLH-408-FL-2B	S1SNLH-408-HD-2B	SNLH-7-2B	5 ¹ / ₂	16 ¹ / ₈
–	110	S1SNLH-110MM-FL-2B	S1SNLH-110MM-HD-2B	SNLH-7-2B	5 ¹ / ₂	16 ¹ / ₈
–	115	S1SNLH-115MM-FL-2B	S1SNLH-115MM-HD-2B	SNLH-7-2B	5 ¹ / ₂	16 ¹ / ₈
4 ¹¹ / ₁₆	–	S1SNLH-411-FL	S1SNLH-411-HD	SNLH-8	5 ²⁹ / ₃₂	19 ¹¹ / ₁₆
4 ³ / ₄	–	S1SNLH-412-FL	S1SNLH-412-HD	SNLH-8	5 ²⁹ / ₃₂	19 ¹¹ / ₁₆
4 ¹⁵ / ₁₆	–	S1SNLH-415-FL	S1SNLH-415-HD	SNLH-8	5 ²⁹ / ₃₂	19 ¹¹ / ₁₆
5	–	S1SNLH-500-FL	S1SNLH-500-HD	SNLH-8	5 ²⁹ / ₃₂	19 ¹¹ / ₁₆
–	120	S1SNLH-120MM-FL	S1SNLH-120MM-HD	SNLH-8	5 ²⁹ / ₃₂	19 ¹¹ / ₁₆
–	125	S1SNLH-125MM-FL	S1SNLH-125MM-HD	SNLH-8	5 ²⁹ / ₃₂	19 ¹¹ / ₁₆
–	130	S1SNLH-130MM-FL	S1SNLH-130MM-HD	SNLH-8	5 ²⁹ / ₃₂	19 ¹¹ / ₁₆

Special application bearings are available upon request.

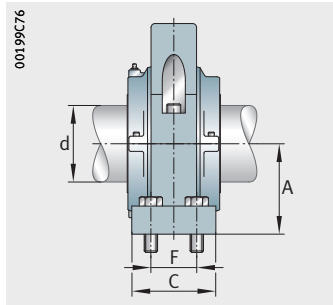
Normal operating temperature for standard bearings is +32 °F to +212 °F.

1) Base to shaft center height can be altered upon request.

2) Housing width only.



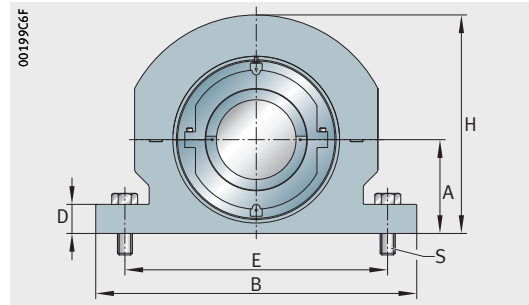
Housing with
2 mounting bolt design



Housing with
4 mounting bolt design

C ⁽²⁾	D	E	F	H	Bolt		Weight lbs
					Number	Diameter	
2 ⁵ / ₁₆	1 ⁹ / ₁₆	13 ³ / ₄	-	10 ³ / ₄	2	1	84.0
2 ⁵ / ₁₆	1 ⁹ / ₁₆	13 ³ / ₄	-	10 ³ / ₄	2	1	84.0
2 ⁵ / ₁₆	1 ⁹ / ₁₆	13 ³ / ₄	-	10 ³ / ₄	2	1	84.0
2 ⁵ / ₁₆	1 ⁹ / ₁₆	13 ³ / ₄	-	10 ³ / ₄	2	1	84.0
2 ⁵ / ₁₆	1 ⁹ / ₁₆	13 ³ / ₄	-	10 ³ / ₄	2	1	84.0
2 ⁵ / ₁₆	1 ⁹ / ₁₆	13 ³ / ₄	-	10 ³ / ₄	2	1	84.0
5 ⁵ / ₈	1 ³ / ₈	12 ³ / ₄	3 ¹ / ₂	11 ⁵ / ₈	4	1	110.0
5 ⁵ / ₈	1 ³ / ₈	12 ³ / ₄	3 ¹ / ₂	11 ⁵ / ₈	4	1	110.0
5 ⁵ / ₈	1 ³ / ₈	12 ³ / ₄	3 ¹ / ₂	11 ⁵ / ₈	4	1	110.0
5 ⁵ / ₈	1 ³ / ₈	12 ³ / ₄	3 ¹ / ₂	11 ⁵ / ₈	4	1	110.0
5 ⁵ / ₈	1 ³ / ₈	12 ³ / ₄	3 ¹ / ₂	11 ⁵ / ₈	4	1	110.0
2 ⁷ / ₈	1 ⁹ / ₁₆	13 ⁷ / ₈	-	12 ¹ / ₄	2	1	110.0
2 ⁷ / ₈	1 ⁹ / ₁₆	13 ⁷ / ₈	-	12 ¹ / ₄	2	1	110.0
2 ⁷ / ₈	1 ⁹ / ₁₆	13 ⁷ / ₈	-	12 ¹ / ₄	2	1	110.0
2 ⁷ / ₈	1 ⁹ / ₁₆	13 ⁷ / ₈	-	12 ¹ / ₄	2	1	110.0
2 ⁷ / ₈	1 ⁹ / ₁₆	13 ⁷ / ₈	-	12 ¹ / ₄	2	1	110.0
2 ⁷ / ₈	1 ⁹ / ₁₆	13 ⁷ / ₈	-	12 ¹ / ₄	2	1	110.0
3	1 ⁵ / ₈	16 ⁹ / ₁₆	-	13 ¹ / ₂	2	1 ¹ / ₄	176.0
3	1 ⁵ / ₈	16 ⁹ / ₁₆	-	13 ¹ / ₂	2	1 ¹ / ₄	176.0
3	1 ⁵ / ₈	16 ⁹ / ₁₆	-	13 ¹ / ₂	2	1 ¹ / ₄	176.0
3	1 ⁵ / ₈	16 ⁹ / ₁₆	-	13 ¹ / ₂	2	1 ¹ / ₄	176.0
3	1 ⁵ / ₈	16 ⁹ / ₁₆	-	13 ¹ / ₂	2	1 ¹ / ₄	176.0
3	1 ⁵ / ₈	16 ⁹ / ₁₆	-	13 ¹ / ₂	2	1 ¹ / ₄	176.0
3	1 ⁵ / ₈	16 ⁹ / ₁₆	-	13 ¹ / ₂	2	1 ¹ / ₄	176.0

SN Compatible Blocks



Dimension table (continued) - Dimensions in inch

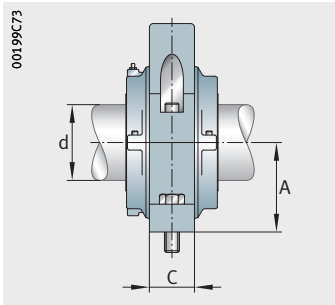
Shaft diameter d		Complete component		Pedestal housing	Dimension	
		Float bearing	Held bearing		A ¹⁾	B
inch	mm					
5 ¹⁵ / ₁₆	–	S1SNLH-515-FL	S1SNLH-515-HD	SNLH-10	6 ¹¹ / ₁₆	21 ⁵ / ₈
6	–	S1SNLH-600-FL	S1SNLH-600-HD	SNLH-10	6 ¹¹ / ₁₆	21 ⁵ / ₈
–	150	S1SNLH-150MM-FL	S1SNLH-150MM-HD	SNLH-10	6 ¹¹ / ₁₆	21 ⁵ / ₈
–	155	S1SNLH-155MM-FL	S1SNLH-155MM-HD	SNLH-10	6 ¹¹ / ₁₆	21 ⁵ / ₈
–	160	S1SNLH-160MM-FL	S1SNLH-160MM-HD	SNLH-10	6 ¹¹ / ₁₆	21 ⁵ / ₈
6 ¹⁵ / ₁₆	–	S1SNLH-615-FL	S1SNLH-615-HD	SNLH-12	7 ¹ / ₂	25 ³ / ₁₆
7	–	S1SNLH-700-FL	S1SNLH-700-HD	SNLH-12	7 ¹ / ₂	25 ³ / ₁₆
–	170	S1SNLH-170MM-FL	S1SNLH-170MM-HD	SNLH-12	7 ¹ / ₂	25 ³ / ₁₆
–	–	S1SNLH-180MM-FL	S1SNLH-180MM-HD	SNLH-12	7 ¹ / ₂	25 ³ / ₁₆

Special application bearings are available upon request.

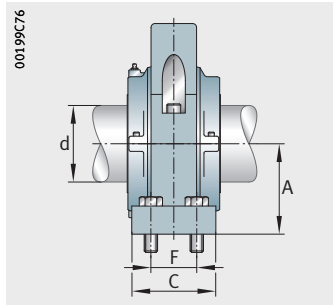
Normal operating temperature for standard bearings is +32 °F to +212 °F.

1) Base to shaft center height can be altered upon request.

2) Housing width only.



Housing with
2 mounting bolt design

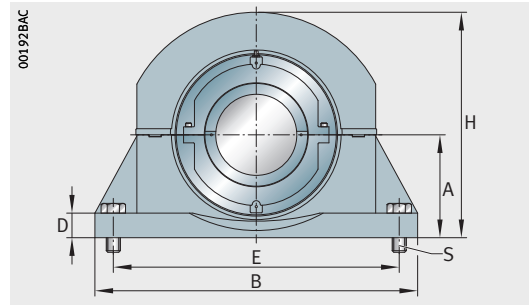


Housing with
4 mounting bolt design

C ⁽²⁾	D	E	F	H	Bolt		Weight lbs
					Number	Diameter	
3 ³ / ₄	2	18 ⁷ / ₈	–	15 ⁵ / ₁₆	2	1 ¹ / ₄	224.9
3 ³ / ₄	2	18 ⁷ / ₈	–	15 ⁵ / ₁₆	2	1 ¹ / ₄	224.9
3 ³ / ₄	2	18 ⁷ / ₈	–	15 ⁵ / ₁₆	2	1 ¹ / ₄	224.9
3 ³ / ₄	2	18 ⁷ / ₈	–	15 ⁵ / ₁₆	2	1 ¹ / ₄	224.9
3 ³ / ₄	2	18 ⁷ / ₈	–	15 ⁵ / ₁₆	2	1 ¹ / ₄	224.9
4 ³ / ₄	2 ³ / ₁₆	23 ¹ / ₄	1	16 ³ / ₄	4	1	282.9
4 ³ / ₄	2 ³ / ₁₆	23 ¹ / ₄	1	16 ³ / ₄	4	1	282.9
4 ³ / ₄	2 ³ / ₁₆	23 ¹ / ₄	1	16 ³ / ₄	4	1	282.9
4 ³ / ₄	2 ³ / ₁₆	23 ¹ / ₄	1	16 ³ / ₄	4	1	282.9

Split Cylindrical Roller Bearing

S2 series small bore



Dimension table · Dimensions in inch

Mounted unit

Shaft diameter d		Complete component		Pedestal housing	Dimension							
		Float bearing	Held bearing		B	H	A ¹⁾	C ²⁾	D	E		F
inch	mm			min.						max.		
2 ³ / ₁₆	–	S2BCH-203-FL	S2BCH-203-HD	PH-4	13	7 ⁷ / ₈	3 ³ / ₄	3	1 ¹ / ₂	10 ¹ / ₄	11	–
2 ¹ / ₄	–	S2BCH-204-FL	S2BCH-204-HD	PH-4	13	7 ⁷ / ₈	3 ³ / ₄	3	1 ¹ / ₂	10 ¹ / ₄	11	–
2 ⁷ / ₁₆	–	S2BCH-207-FL	S2BCH-207-HD	PH-4	13	7 ⁷ / ₈	3 ³ / ₄	3	1 ¹ / ₂	10 ¹ / ₄	11	–
2 ¹ / ₂	–	S2BCH-208-FL	S2BCH-208-HD	PH-4	13	7 ⁷ / ₈	3 ³ / ₄	3	1 ¹ / ₂	10 ¹ / ₄	11	–
–	55	S2BCH-55MM-FL	S2BCH-55MM-HD	PH-4	13	7 ⁷ / ₈	3 ³ / ₄	3	1 ¹ / ₂	10 ¹ / ₄	11	–
–	60	S2BCH-60MM-FL	S2BCH-60MM-HD	PH-4	13	7 ⁷ / ₈	3 ³ / ₄	3	1 ¹ / ₂	10 ¹ / ₄	11	–
–	65	S2BCH-65MM-FL	S2BCH-65MM-HD	PH-4	13	7 ⁷ / ₈	3 ³ / ₄	3	1 ¹ / ₂	10 ¹ / ₄	11	–
2 ¹¹ / ₁₆	–	S2BCH-211-FL	S2BCH-211-HD	PH-5	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	5 ¹ / ₂	1 ³ / ₄	12 ³ / ₈	13 ³ / ₈	3 ¹ / ₂
2 ¹¹ / ₁₆	–	S2BCH-211-FL-2B	S2BCH-211-HD-2B	PH-5-2B	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	3 ¹ / ₂	1 ³ / ₄	12 ³ / ₁₆	13 ³ / ₁₆	–
2 ³ / ₄	–	S2BCH-212-FL	S2BCH-212-HD	PH-5	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	5 ¹ / ₂	1 ³ / ₄	12 ³ / ₈	13 ³ / ₈	3 ¹ / ₂
2 ³ / ₄	–	S2BCH-212-FL-2B	S2BCH-212-HD-2B	PH-5-2B	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	3 ¹ / ₂	1 ³ / ₄	12 ³ / ₁₆	13 ³ / ₁₆	–
2 ¹⁵ / ₁₆	–	S2BCH-215-FL	S2BCH-215-HD	PH-5	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	5 ¹ / ₂	1 ³ / ₄	12 ³ / ₈	13 ³ / ₈	3 ¹ / ₂
2 ¹⁵ / ₁₆	–	S2BCH-215-FL-2B	S2BCH-215-HD-2B	PH-5-2B	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	3 ¹ / ₂	1 ³ / ₄	12 ³ / ₁₆	13 ³ / ₁₆	–
3	–	S2BCH-300-FL	S2BCH-300-HD	PH-5	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	5 ¹ / ₂	1 ³ / ₄	12 ³ / ₈	13 ³ / ₈	3 ¹ / ₂
3	–	S2BCH-300-FL-2B	S2BCH-300-HD-2B	PH-5-2B	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	3 ¹ / ₂	1 ³ / ₄	12 ³ / ₁₆	13 ³ / ₁₆	–
–	70	S2BCH-70MM-FL	S2BCH-70MM-HD	PH-5	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	5 ¹ / ₂	1 ³ / ₄	12 ³ / ₈	13 ³ / ₈	3 ¹ / ₂
–	70	S2BCH-70MM-FL-2B	S2BCH-70MM-HD-2B	PH-5-2B	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	3 ¹ / ₂	1 ³ / ₄	12 ³ / ₁₆	13 ³ / ₁₆	–
–	75	S2BCH-75MM-FL	S2BCH-75MM-HD	PH-5	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	5 ¹ / ₂	1 ³ / ₄	12 ³ / ₈	13 ³ / ₈	3 ¹ / ₂
–	75	S2BCH-75MM-FL-2B	S2BCH-75MM-HD-2B	PH-5-2B	15	10 ¹ / ₁₆	4 ¹³ / ₃₂	3 ¹ / ₂	1 ³ / ₄	12 ³ / ₁₆	13 ³ / ₁₆	–

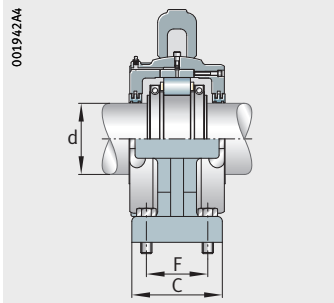
Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.

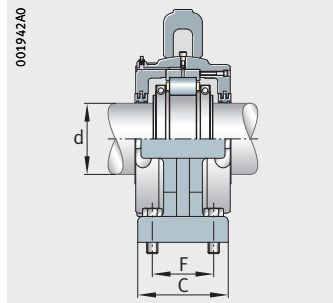
Cartridge assembly and roller bearing, see page 70.

¹⁾ Base to shaft center height can be altered upon request.

²⁾ Housing width only.



S2BC...-FL

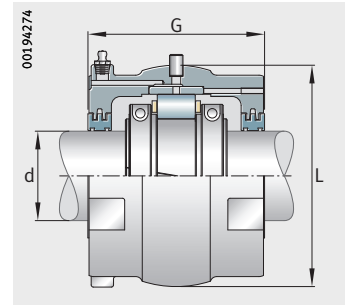


S2BC...-HD

Bolt		Weight	Cartridge assembly			Bearing		Group
			Float bearing	Held bearing	Cartridge	Float bearing	Held bearing	
Number	Diameter	lbs						
2	3/4	39.0	S2BC-203-FL	S2BC-203-HD	S2C-208	S2B-203-FL	S2B-203-HD	208 Grp
2	3/4	39.0	S2BC-204-FL	S2BC-204-HD	S2C-208	S2B-204-FL	S2B-204-HD	208 Grp
2	3/4	39.0	S2BC-207-FL	S2BC-207-HD	S2C-208	S2B-207-FL	S2B-207-HD	208 Grp
2	3/4	39.0	S2BC-208-FL	S2BC-208-HD	S2C-208	S2B-208-FL	S2B-208-HD	208 Grp
2	3/4	39.0	S2BC-55MM-FL	S2BC-55MM-HD	S2C-208	S2B-55MM-FL	S2B-55MM-HD	208 Grp
2	3/4	39.0	S2BC-60MM-FL	S2BC-60MM-HD	S2C-208	S2B-60MM-FL	S2B-60MM-HD	208 Grp
2	3/4	39.0	S2BC-65MM-FL	S2BC-65MM-HD	S2C-208	S2B-65MM-FL	S2B-65MM-HD	208 Grp
2	3/4	74.0	S2BC-211-FL	S2BC-211-HD	S2C-300	S2B-211-FL	S2B-211-HD	300 Grp
2	3/4	66.6	S2BC-211-FL	S2BC-211-HD	S2C-300	S2B-211-FL	S2B-211-HD	300 Grp
2	3/4	74.0	S2BC-212-FL	S2BC-212-HD	S2C-300	S2B-212-FL	S2B-212-HD	300 Grp
2	3/4	66.6	S2BC-212-FL	S2BC-212-HD	S2C-300	S2B-212-FL	S2B-212-HD	300 Grp
2	3/4	74.0	S2BC-215-FL	S2BC-215-HD	S2C-300	S2B-215-FL	S2B-215-HD	300 Grp
2	3/4	66.6	S2BC-215-FL	S2BC-215-HD	S2C-300	S2B-215-FL	S2B-215-HD	300 Grp
4	3/4	74.0	S2BC-300-FL	S2BC-300-HD	S2C-300	S2B-300-FL	S2B-300-HD	300 Grp
4	3/4	66.6	S2BC-300-FL	S2BC-300-HD	S2C-300	S2B-300-FL	S2B-300-HD	300 Grp
4	3/4	74.0	S2BC-70MM-FL	S2BC-70MM-HD	S2C-300	S2B-70MM-FL	S2B-70MM-HD	300 Grp
4	3/4	66.6	S2BC-70MM-FL	S2BC-70MM-HD	S2C-300	S2B-70MM-FL	S2B-70MM-HD	300 Grp
4	3/4	74.0	S2BC-75MM-FL	S2BC-75MM-HD	S2C-300	S2B-75MM-FL	S2B-75MM-HD	300 Grp
4	3/4	66.6	S2BC-75MM-FL	S2BC-75MM-HD	S2C-300	S2B-75MM-FL	S2B-75MM-HD	300 Grp

Split Cylindrical Roller Bearing

S2 series small bore



S2BC...-FL

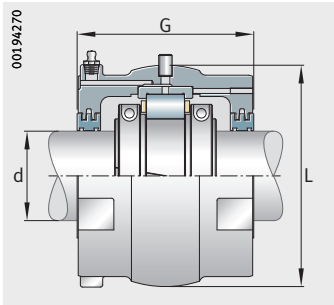
Dimension table (continued) - Dimensions in inch

Shaft diameter		Cartridge assembly						
		Float bearing	Held bearing	Dimension		Grease capacity	Cartridge	
inch	mm			G	L ¹⁾		lbs	
								lbs
2 ³ / ₁₆	–	S2BC-203-FL	S2BC-203-HD	4 ¹⁵ / ₁₆	6 ³ / ₁₆	0.47	S2C-208	24.2
2 ¹ / ₄	–	S2BC-204-FL	S2BC-204-HD	4 ¹⁵ / ₁₆	6 ³ / ₁₆	0.47	S2C-208	24.2
2 ⁷ / ₁₆	–	S2BC-207-FL	S2BC-207-HD	4 ¹⁵ / ₁₆	6 ³ / ₁₆	0.47	S2C-208	24.2
2 ¹ / ₂	–	S2BC-208-FL	S2BC-208-HD	4 ¹⁵ / ₁₆	6 ³ / ₁₆	0.47	S2C-208	24.2
–	55	S2BC-55MM-FL	S2BC-55MM-HD	4 ¹⁵ / ₁₆	6 ³ / ₁₆	0.47	S2C-208	24.2
–	60	S2BC-60MM-FL	S2BC-60MM-HD	4 ¹⁵ / ₁₆	6 ³ / ₁₆	0.47	S2C-208	24.2
–	65	S2BC-65MM-FL	S2BC-65MM-HD	4 ¹⁵ / ₁₆	6 ³ / ₁₆	0.47	S2C-208	24.2
2 ¹¹ / ₁₆	–	S2BC-211-FL	S2BC-211-HD	5 ¹ / ₂	7	0.66	S2C-300	34.0
2 ¹¹ / ₁₆	–	S2BC-211-FL	S2BC-211-HD	5 ¹ / ₂	7	0.66	S2C-300	34.0
2 ³ / ₄	–	S2BC-212-FL	S2BC-212-HD	5 ¹ / ₂	7	0.66	S2C-300	34.0
2 ³ / ₄	–	S2BC-212-FL	S2BC-212-HD	5 ¹ / ₂	7	0.66	S2C-300	34.0
2 ¹⁵ / ₁₆	–	S2BC-215-FL	S2BC-215-HD	5 ¹ / ₂	7	0.66	S2C-300	34.0
2 ¹⁵ / ₁₆	–	S2BC-215-FL	S2BC-215-HD	5 ¹ / ₂	7	0.66	S2C-300	34.0
3	–	S2BC-300-FL	S2BC-300-HD	5 ¹ / ₂	7	0.66	S2C-300	34.0
3	–	S2BC-300-FL	S2BC-300-HD	5 ¹ / ₂	7	0.66	S2C-300	34.0
–	70	S2BC-70MM-FL	S2BC-70MM-HD	5 ¹ / ₂	7	0.66	S2C-300	34.0
–	70	S2BC-70MM-FL	S2BC-70MM-HD	5 ¹ / ₂	7	0.66	S2C-300	34.0
–	75	S2BC-75MM-FL	S2BC-75MM-HD	5 ¹ / ₂	7	0.66	S2C-300	34.0
–	75	S2BC-75MM-FL	S2BC-75MM-HD	5 ¹ / ₂	7	0.66	S2C-300	34.0

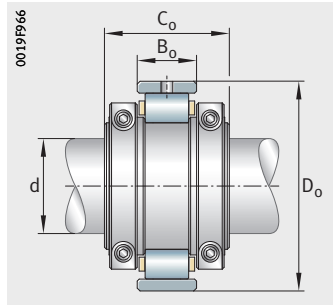
Mounted unit, see page 68.

1) Length through bore.

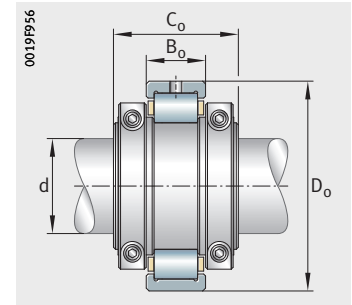
2) Based on axial capacity at 1000 min⁻¹.



S2BC...-HD



S2BC...-FL



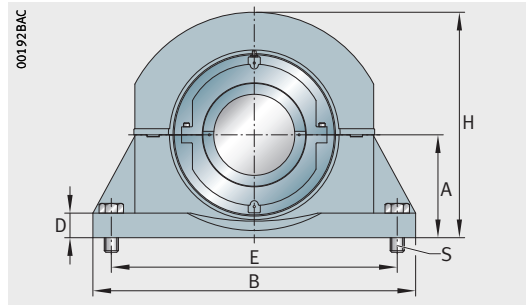
S2BC...-HD

Bearing

Float bearing	Held bearing	Bearing rating				Dimension			Weight lbs	Group
		dyn. C _r lbs	stat. C ₀ lbs	axial C _a ⁽²⁾ lbs	max. Speed min ⁻¹	D ₀	C ₀	B ₀		
S2B-203-FL	S2B-203-HD	33 595	42 879	473	3 450	5	2.844	1.531	7.7	208 Grp
S2B-204-FL	S2B-204-HD	33 595	42 879	473	3 450	5	2.844	1.531	7.7	208 Grp
S2B-207-FL	S2B-207-HD	33 595	42 879	473	3 450	5	2.844	1.531	7.7	208 Grp
S2B-208-FL	S2B-208-HD	33 595	42 879	473	3 450	5	2.844	1.531	7.7	208 Grp
S2B-55MM-FL	S2B-55MM-HD	33 595	42 879	473	3 450	5	2.844	1.531	7.7	208 Grp
S2B-60MM-FL	S2B-60MM-HD	33 595	42 879	473	3 450	5	2.844	1.531	7.7	208 Grp
S2B-65MM-FL	S2B-65MM-HD	33 595	42 879	473	3 450	5	2.844	1.531	7.7	208 Grp
S2B-211-FL	S2B-211-HD	45 440	59 277	561	2 930	5.875	3.25	1.813	12.1	300 Grp
S2B-211-FL	S2B-211-HD	45 440	59 277	561	2 930	5.875	3.25	1.813	12.1	300 Grp
S2B-212-FL	S2B-212-HD	45 440	59 277	561	2 930	5.875	3.25	1.813	12.1	300 Grp
S2B-212-FL	S2B-212-HD	45 440	59 277	561	2 930	5.875	3.25	1.813	12.1	300 Grp
S2B-215-FL	S2B-215-HD	45 440	59 277	561	2 930	5.875	3.25	1.813	12.1	300 Grp
S2B-215-FL	S2B-215-HD	45 440	59 277	561	2 930	5.875	3.25	1.813	12.1	300 Grp
S2B-300-FL	S2B-300-HD	45 440	59 277	561	2 930	5.875	3.25	1.813	12.1	300 Grp
S2B-300-FL	S2B-300-HD	45 440	59 277	561	2 930	5.875	3.25	1.813	12.1	300 Grp
S2B-70MM-FL	S2B-70MM-HD	45 440	59 277	561	2 930	5.875	3.25	1.813	12.1	300 Grp
S2B-70MM-FL	S2B-70MM-HD	45 440	59 277	561	2 930	5.875	3.25	1.813	12.1	300 Grp
S2B-75MM-FL	S2B-75MM-HD	45 440	59 277	561	2 930	5.875	3.25	1.813	12.1	300 Grp
S2B-75MM-FL	S2B-75MM-HD	45 440	59 277	561	2 930	5.875	3.25	1.531	12.1	300 Grp

Split Cylindrical Roller Bearing

S2 series small bore



Dimension table (continued) - Dimensions in inch

Mounted unit

Shaft diameter d		Complete component		Pedestal housing	Dimension							
					B	H	A ¹⁾	C ²⁾	D	E		F
inch	mm	Float bearing	Held bearing	min.						max.		
3 ³ / ₁₆	–	S2BCH-303-FL	S2BCH-303-HD	PH-6	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	6	2	14	15	4
3 ³ / ₁₆	–	S2BCH-303-FL-2B	S2BCH-303-HD-2B	PH-6-2B	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	4 ¹ / ₄	2	13 ¹ / ₂	14 ⁷ / ₈	–
3 ¹ / ₄	–	S2BCH-304-FL	S2BCH-304-HD	PH-6	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	6	2	14	15	4
3 ¹ / ₄	–	S2BCH-304-FL-2B	S2BCH-304-HD-2B	PH-6-2B	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	4 ¹ / ₄	2	13 ¹ / ₂	14 ⁷ / ₈	–
3 ⁷ / ₁₆	–	S2BCH-307-FL	S2BCH-307-HD	PH-6	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	6	2	14	15	4
3 ⁷ / ₁₆	–	S2BCH-307-FL-2B	S2BCH-307-HD-2B	PH-6-2B	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	4 ¹ / ₄	2	13 ¹ / ₂	14 ⁷ / ₈	–
3 ¹ / ₂	–	S2BCH-308-FL	S2BCH-308-HD	PH-6	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	6	2	14	15	4
3 ¹ / ₂	–	S2BCH-308-FL-2B	S2BCH-308-HD-2B	PH-6-2B	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	4 ¹ / ₄	2	13 ¹ / ₂	14 ⁷ / ₈	–
–	80	S2BCH-80MM-FL	S2BCH-80MM-HD	PH-6	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	6	2	14	15	4
–	80	S2BCH-80MM-FL-2B	S2BCH-80MM-HD-2B	PH-6-2B	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	4 ¹ / ₄	2	13 ¹ / ₂	14 ⁷ / ₈	–
–	85	S2BCH-85MM-FL	S2BCH-85MM-HD	PH-6	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	6	2	14	15	4
–	85	S2BCH-85MM-FL-2B	S2BCH-85MM-HD-2B	PH-6-2B	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	4 ¹ / ₄	2	13 ¹ / ₂	14 ⁷ / ₈	–
–	90	S2BCH-90MM-FL	S2BCH-90MM-HD	PH-6	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	6	2	14	15	4
–	90	S2BCH-90MM-FL-2B	S2BCH-90MM-HD-2B	PH-6-2B	16 ³ / ₄	10 ³ / ₄	4 ¹⁵ / ₁₆	4 ¹ / ₄	2	13 ¹ / ₂	14 ⁷ / ₈	–
3 ¹¹ / ₁₆	–	S2BCH-311-FL	S2BCH-311-HD	PH-7	18 ³ / ₄	12 ³ / ₈	5 ⁵ / ₈	6 ³ / ₄	2 ³ / ₈	15 ³ / ₄	16 ¹¹ / ₁₆	4 ¹ / ₂
3 ³ / ₄	–	S2BCH-312-FL	S2BCH-312-HD	PH-7	18 ³ / ₄	12 ³ / ₈	5 ⁵ / ₈	6 ³ / ₄	2 ³ / ₈	15 ³ / ₄	16 ¹¹ / ₁₆	4 ¹ / ₂
3 ¹⁵ / ₁₆	–	S2BCH-315-FL	S2BCH-315-HD	PH-7	18 ³ / ₄	12 ³ / ₈	5 ⁵ / ₈	6 ³ / ₄	2 ³ / ₈	15 ³ / ₄	16 ¹¹ / ₁₆	4 ¹ / ₂
4	–	S2BCH-400-FL	S2BCH-400-HD	PH-7	18 ³ / ₄	12 ³ / ₈	5 ⁵ / ₈	6 ³ / ₄	2 ³ / ₈	15 ³ / ₄	16 ¹¹ / ₁₆	4 ¹ / ₂
–	100	S2BCH-100MM-FL	S2BCH-100MM-HD	PH-7	18 ³ / ₄	12 ³ / ₈	5 ⁵ / ₈	6 ³ / ₄	2 ³ / ₈	15 ³ / ₄	16 ¹¹ / ₁₆	4 ¹ / ₂
–	105	S2BCH-105MM-FL	S2BCH-105MM-HD	PH-7	18 ³ / ₄	12 ³ / ₈	5 ⁵ / ₈	6 ³ / ₄	2 ³ / ₈	15 ³ / ₄	16 ¹¹ / ₁₆	4 ¹ / ₂
4 ³ / ₁₆	–	S2BCH-403-FL	S2BCH-403-HD	PH-8	20	14	6 ³ / ₈	7	1 ¹ / ₂	17 ¹ / ₄	18 ³ / ₁₆	4 ³ / ₄
4 ¹ / ₄	–	S2BCH-404-FL	S2BCH-404-HD	PH-8	20	14	6 ³ / ₈	7	1 ¹ / ₂	17 ¹ / ₄	18 ³ / ₁₆	4 ³ / ₄
4 ⁷ / ₁₆	–	S2BCH-407-FL	S2BCH-407-HD	PH-8	20	14	6 ³ / ₈	7	1 ¹ / ₂	17 ¹ / ₄	18 ³ / ₁₆	4 ³ / ₄
4 ¹ / ₂	–	S2BCH-408-FL	S2BCH-408-HD	PH-8	20	14	6 ³ / ₈	7	1 ¹ / ₂	17 ¹ / ₄	18 ³ / ₁₆	4 ³ / ₄
–	110	S2BCH-110MM-FL	S2BCH-110MM-HD	PH-8	20	14	6 ³ / ₈	7	1 ¹ / ₂	17 ¹ / ₄	18 ³ / ₁₆	4 ³ / ₄
–	115	S2BCH-115MM-FL	S2BCH-115MM-HD	PH-8	20	14	6 ³ / ₈	7	1 ¹ / ₂	17 ¹ / ₄	18 ³ / ₁₆	4 ³ / ₄

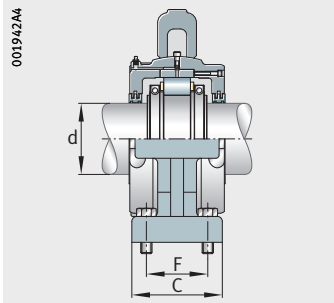
Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.

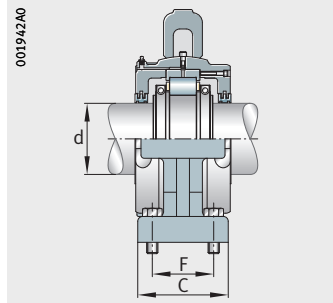
Cartridge assembly and roller bearing, see page 74.

1) Base to shaft center height can be altered upon request.

2) Housing width only.



S2BC...-FL

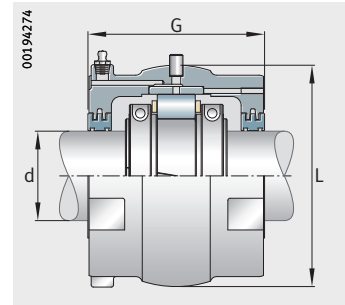


S2BC...-HD

Bolt		Weight lbs	Cartridge assembly			Bearing		Group
			Float bearing	Held bearing	Cartridge	Float bearing	Held bearing	
Num-ber	Diam-eter							
2	3/4	88.0	S2BC-303-FL	S2BC-303-HD	S2C-308	S2B-303-FL	S2B-303-HD	308 Grp
2	3/4	79.2	S2BC-303-FL	S2BC-303-HD	S2C-308	S2B-303-FL	S2B-303-HD	308 Grp
2	3/4	88.0	S2BC-304-FL	S2BC-304-HD	S2C-308	S2B-304-FL	S2B-304-HD	308 Grp
2	3/4	79.2	S2BC-304-FL	S2BC-304-HD	S2C-308	S2B-304-FL	S2B-304-HD	308 Grp
2	3/4	88.0	S2BC-307-FL	S2BC-307-HD	S2C-308	S2B-307-FL	S2B-307-HD	308 Grp
2	3/4	79.2	S2BC-307-FL	S2BC-307-HD	S2C-308	S2B-307-FL	S2B-307-HD	308 Grp
2	3/4	88.0	S2BC-308-FL	S2BC-308-HD	S2C-308	S2B-308-FL	S2B-308-HD	308 Grp
2	3/4	79.2	S2BC-308-FL	S2BC-308-HD	S2C-308	S2B-308-FL	S2B-308-HD	308 Grp
4	3/4	88.0	S2BC-80MM-FL	S2BC-80MM-HD	S2C-308	S2B-80MM-FL	S2B-80MM-HD	308 Grp
4	3/4	79.2	S2BC-80MM-FL	S2BC-80MM-HD	S2C-308	S2B-80MM-FL	S2B-80MM-HD	308 Grp
4	3/4	88.0	S2BC-85MM-FL	S2BC-85MM-HD	S2C-308	S2B-85MM-FL	S2B-85MM-HD	308 Grp
4	3/4	79.2	S2BC-85MM-FL	S2BC-85MM-HD	S2C-308	S2B-85MM-FL	S2B-85MM-HD	308 Grp
4	3/4	88.0	S2BC-90MM-FL	S2BC-90MM-HD	S2C-308	S2B-90MM-FL	S2B-90MM-HD	308 Grp
4	3/4	79.2	S2BC-90MM-FL	S2BC-90MM-HD	S2C-308	S2B-90MM-FL	S2B-90MM-HD	308 Grp
4	3/4	118.0	S2BC-311-FL	S2BC-311-HD	S2C-400	S2B-311-FL	S2B-311-HD	400 Grp
4	3/4	118.0	S2BC-312-FL	S2BC-312-HD	S2C-400	S2B-312-FL	S2B-312-HD	400 Grp
4	3/4	118.0	S2BC-315-FL	S2BC-315-HD	S2C-400	S2B-315-FL	S2B-315-HD	400 Grp
4	3/4	118.0	S2BC-400-FL	S2BC-400-HD	S2C-400	S2B-400-FL	S2B-400-HD	400 Grp
4	3/4	118.0	S2BC-100MM-FL	S2BC-100MM-HD	S2C-400	S2B-100MM-FL	S2B-100MM-HD	400 Grp
4	3/4	118.0	S2BC-105MM-FL	S2BC-105MM-HD	S2C-400	S2B-105MM-FL	S2B-105MM-HD	400 Grp
4	7/8	179.9	S2BC-403-FL	S2BC-403-HD	S2C-408	S2B-403-FL	S2B-403-HD	408 Grp
4	7/8	179.9	S2BC-404-FL	S2BC-404-HD	S2C-408	S2B-404-FL	S2B-404-HD	408 Grp
4	7/8	179.9	S2BC-407-FL	S2BC-407-HD	S2C-408	S2B-407-FL	S2B-407-HD	408 Grp
4	7/8	179.9	S2BC-408-FL	S2BC-408-HD	S2C-408	S2B-408-FL	S2B-408-HD	408 Grp
4	7/8	179.9	S2BC-110MM-FL	S2BC-110MM-HD	S2C-408	S2B-110MM-FL	S2B-110MM-HD	408 Grp
4	7/8	179.9	S2BC-115MM-FL	S2BC-115MM-HD	S2C-408	S2B-115MM-FL	S2B-115MM-HD	408 Grp

Split Cylindrical Roller Bearing

S2 series small bore



S2BC...-FL

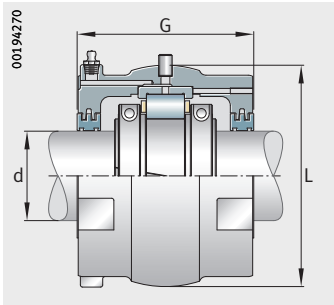
Dimension table (continued) - Dimensions in inch

Shaft diameter		Cartridge assembly						
		Float bearing	Held bearing	Dimension		Grease capacity	Cartridge	
d				G	L ¹⁾		lbs	
inch	mm							lbs
3 ³ / ₁₆	–	S2BC-303-FL	S2BC-303-HD	5 ³ / ₄	8	1.10	S2C-308	41.3
3 ³ / ₁₆	–	S2BC-303-FL	S2BC-303-HD	5 ³ / ₄	8	1.10	S2C-308	41.3
3 ¹ / ₄	–	S2BC-304-FL	S2BC-304-HD	5 ³ / ₄	8	1.10	S2C-308	41.3
3 ¹ / ₄	–	S2BC-304-FL	S2BC-304-HD	5 ³ / ₄	8	1.10	S2C-308	41.3
3 ⁷ / ₁₆	–	S2BC-307-FL	S2BC-307-HD	5 ³ / ₄	8	1.10	S2C-308	41.3
3 ⁷ / ₁₆	–	S2BC-307-FL	S2BC-307-HD	5 ³ / ₄	8	1.10	S2C-308	41.3
3 ¹ / ₂	–	S2BC-308-FL	S2BC-308-HD	5 ³ / ₄	8	1.10	S2C-308	41.3
3 ¹ / ₂	–	S2BC-308-FL	S2BC-308-HD	5 ³ / ₄	8	1.10	S2C-308	41.3
–	80	S2BC-80MM-FL	S2BC-80MM-HD	5 ³ / ₄	8	1.10	S2C-308	41.3
–	80	S2BC-80MM-FL	S2BC-80MM-HD	5 ³ / ₄	8	1.10	S2C-308	41.3
–	85	S2BC-85MM-FL	S2BC-85MM-HD	5 ³ / ₄	8	1.10	S2C-308	41.3
–	85	S2BC-85MM-FL	S2BC-85MM-HD	5 ³ / ₄	8	1.10	S2C-308	41.3
–	90	S2BC-90MM-FL	S2BC-90MM-HD	5 ³ / ₄	8	1.10	S2C-308	41.3
–	90	S2BC-90MM-FL	S2BC-90MM-HD	5 ³ / ₄	8	1.10	S2C-308	41.3
3 ¹¹ / ₁₆	–	S2BC-311-FL	S2BC-311-HD	5 ³ / ₄	9 ¹ / ₈	1.40	S2C-400	58.0
3 ³ / ₄	–	S2BC-312-FL	S2BC-312-HD	5 ³ / ₄	9 ¹ / ₈	1.40	S2C-400	58.0
3 ¹⁵ / ₁₆	–	S2BC-315-FL	S2BC-315-HD	5 ³ / ₄	9 ¹ / ₈	1.40	S2C-400	58.0
4	–	S2BC-400-FL	S2BC-400-HD	5 ³ / ₄	9 ¹ / ₈	1.40	S2C-400	58.0
–	100	S2BC-100MM-FL	S2BC-100MM-HD	5 ³ / ₄	9 ¹ / ₈	1.40	S2C-400	58.0
–	105	S2BC-105MM-FL	S2BC-105MM-HD	5 ³ / ₄	9 ¹ / ₈	1.40	S2C-400	58.0
4 ³ / ₁₆	–	S2BC-403-FL	S2BC-403-HD	6 ³ / ₈	10 ¹ / ₂	2.00	S2C-408	77.2
4 ¹ / ₄	–	S2BC-404-FL	S2BC-404-HD	6 ³ / ₈	10 ¹ / ₂	2.00	S2C-408	77.2
4 ⁷ / ₁₆	–	S2BC-407-FL	S2BC-407-HD	6 ³ / ₈	10 ¹ / ₂	2.00	S2C-408	77.2
4 ¹ / ₂	–	S2BC-408-FL	S2BC-408-HD	6 ³ / ₈	10 ¹ / ₂	2.00	S2C-408	77.2
–	110	S2BC-110MM-FL	S2BC-110MM-HD	6 ³ / ₈	10 ¹ / ₂	2.00	S2C-408	77.2
–	115	S2BC-115MM-FL	S2BC-115MM-HD	6 ³ / ₈	10 ¹ / ₂	2.00	S2C-408	77.2

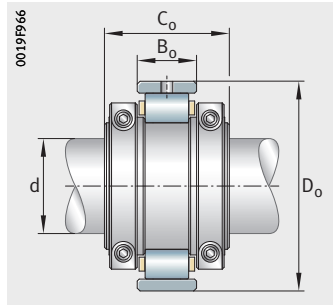
Mounted unit, see page 72.

1) Length through bore.

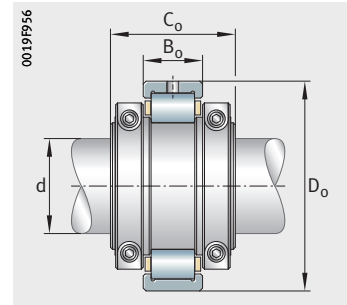
2) Based on axial capacity at 1000 min⁻¹.



S2BC...-HD



S2BC...-FL



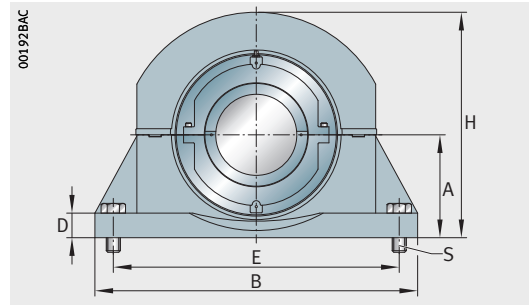
S2BC...-HD

Bearing

Float bearing	Held bearing	Bearing rating				Dimension			Weight lbs	Group
		dyn. C _r lbs	stat. C ₀ lbs	axial C _a ² lbs	max. Speed min ⁻¹	D ₀	C ₀	B ₀		
S2B-303-FL	S2B-303-HD	57 456	79 616	666	2 550	6.688	3.528	1.906	17.6	308 Grp
S2B-303-FL	S2B-303-HD	57 456	79 616	666	2 550	6.688	3.528	1.906	17.6	308 Grp
S2B-304-FL	S2B-304-HD	57 456	79 616	666	2 550	6.688	3.528	1.906	17.6	308 Grp
S2B-304-FL	S2B-304-HD	57 456	79 616	666	2 550	6.688	3.528	1.906	17.6	308 Grp
S2B-307-FL	S2B-307-HD	57 456	79 616	666	2 550	6.688	3.528	1.906	17.6	308 Grp
S2B-307-FL	S2B-307-HD	57 456	79 616	666	2 550	6.688	3.528	1.906	17.6	308 Grp
S2B-308-FL	S2B-308-HD	57 456	79 616	666	2 550	6.688	3.528	1.906	17.6	308 Grp
S2B-308-FL	S2B-308-HD	57 456	79 616	666	2 550	6.688	3.528	1.906	17.6	308 Grp
S2B-80MM-FL	S2B-80MM-HD	57 456	79 616	666	2 550	6.688	3.528	1.906	17.6	308 Grp
S2B-80MM-FL	S2B-80MM-HD	57 456	79 616	666	2 550	6.688	3.528	1.906	17.6	308 Grp
S2B-85MM-FL	S2B-85MM-HD	57 456	79 616	666	2 550	6.688	3.528	1.906	17.6	308 Grp
S2B-85MM-FL	S2B-85MM-HD	57 456	79 616	666	2 550	6.688	3.528	1.906	17.6	308 Grp
S2B-90MM-FL	S2B-90MM-HD	57 456	79 616	666	2 550	6.688	3.528	1.906	17.6	308 Grp
S2B-90MM-FL	S2B-90MM-HD	57 456	79 616	666	2 550	6.688	3.528	1.906	17.6	308 Grp
S2B-311-FL	S2B-311-HD	74 163	105 062	761	2 230	7.625	3.622	2.031	21.8	400 Grp
S2B-312-FL	S2B-312-HD	74 163	105 062	761	2 230	7.625	3.622	2.031	21.8	400 Grp
S2B-315-FL	S2B-315-HD	74 163	105 062	761	2 230	7.625	3.622	2.031	21.8	400 Grp
S2B-400-FL	S2B-400-HD	74 163	105 062	761	2 230	7.625	3.622	2.031	21.8	400 Grp
S2B-100MM-FL	S2B-100MM-HD	74 163	105 062	761	2 230	7.625	3.622	2.031	21.8	400 Grp
S2B-105MM-FL	S2B-105MM-HD	74 163	105 062	761	2 230	7.625	3.622	2.031	21.8	400 Grp
S2B-403-FL	S2B-403-HD	91 451	131 199	857	1 980	9	3.938	2.25	38.9	408 Grp
S2B-404-FL	S2B-404-HD	91 451	131 199	857	1 980	9	3.938	2.25	38.9	408 Grp
S2B-407-FL	S2B-407-HD	91 451	131 199	857	1 980	9	3.938	2.25	38.9	408 Grp
S2B-408-FL	S2B-408-HD	91 451	131 199	857	1 980	9	3.938	2.25	38.9	408 Grp
S2B-110MM-FL	S2B-110MM-HD	91 451	131 199	857	1 980	9	3.938	2.25	38.9	408 Grp
S2B-115MM-FL	S2B-115MM-HD	91 451	131 199	857	1 980	9	3.938	2.25	38.9	408 Grp

Split Cylindrical Roller Bearing

S2 series small bore



Dimension table (continued) - Dimensions in inch

Mounted unit

Shaft diameter d		Complete component		Pedestal housing	Dimension								
					Float bearing	Held bearing	B	H	A ¹⁾	C ²⁾	D	E	
		min.	max.										
inch	mm												
4 ^{11/16}	-	S2BCH-411-FL	S2BCH-411-HD	PH-10	22	15 ^{3/4}	7 ^{1/8}	7	1 ^{5/8}	18 ^{1/2}	20 ^{1/2}	4 ^{3/4}	
4 ^{15/16}	-	S2BCH-415-FL	S2BCH-415-HD	PH-10	22	15 ^{3/4}	7 ^{1/8}	7	1 ^{5/8}	18 ^{1/2}	20 ^{1/2}	4 ^{3/4}	
5	-	S2BCH-500-FL	S2BCH-500-HD	PH-10	22	15 ^{3/4}	7 ^{1/8}	7	1 ^{5/8}	18 ^{1/2}	20 ^{1/2}	4 ^{3/4}	
-	120	S2BCH-120MM-FL	S2BCH-120MM-HD	PH-10	22	15 ^{3/4}	7 ^{1/8}	7	1 ^{5/8}	18 ^{1/2}	20 ^{1/2}	4 ^{3/4}	
-	125	S2BCH-125MM-FL	S2BCH-125MM-HD	PH-10	22	15 ^{3/4}	7 ^{1/8}	7	1 ^{5/8}	18 ^{1/2}	20 ^{1/2}	4 ^{3/4}	
-	130	S2BCH-130MM-FL	S2BCH-130MM-HD	PH-10	22	15 ^{3/4}	7 ^{1/8}	7	1 ^{5/8}	18 ^{1/2}	20 ^{1/2}	4 ^{3/4}	
5 ^{3/16}	-	S2BCH-503-FL	S2BCH-503-HD	PH-20	24	18	8	7	2	21	22	4 ^{3/4}	
5 ^{7/16}	-	S2BCH-507-FL	S2BCH-507-HD	PH-20	24	18	8	7	2	21	22	4 ^{3/4}	
5 ^{1/2}	-	S2BCH-508-FL	S2BCH-508-HD	PH-20	24	18	8	7	2	21	22	4 ^{3/4}	
-	140	S2BCH-140MM-FL	S2BCH-140MM-HD	PH-20	24	18	8	7	2	21	22	4 ^{3/4}	
5 ^{15/16}	-	S2BCH-515-FL	S2BCH-515-HD	PH-21	25	18	10 ^{1/4}	8	2	21 ^{1/2}	22 ^{1/2}	5	
6	-	S2BCH-600-FL	S2BCH-600-HD	PH-21	25	18	11 ^{1/4}	8	2	21 ^{1/2}	22 ^{1/2}	5	
-	150	S2BCH-150MM-FL	S2BCH-150MM-HD	PH-21	25	18	12 ^{1/4}	8	2	21 ^{1/2}	22 ^{1/2}	5	
-	155	S2BCH-155MM-FL	S2BCH-155MM-HD	PH-21	25	18	13 ^{1/4}	8	2	21 ^{1/2}	22 ^{1/2}	5	

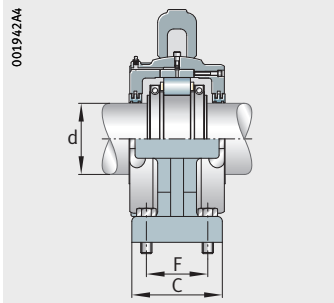
Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.

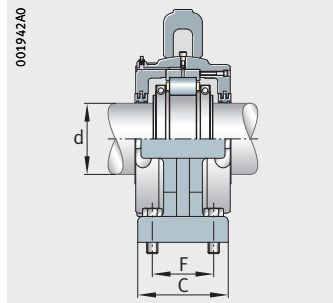
Cartridge assembly and roller bearing, see page 78.

1) Base to shaft center height can be altered upon request.

2) Housing width only.



S2BC...-FL

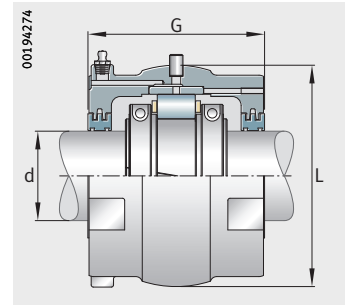


S2BC...-HD

Bolt		Weight	Cartridge assembly			Bearing		Group
			Float bearing	Held bearing	Cartridge	Float bearing	Held bearing	
Number	Diameter	lbs						
4	7/8	233.9	S2BC-411-FL	S2BC-411-HD	S2C-500	S2B-411-FL	S2B-411-HD	500 Grp
4	7/8	233.9	S2BC-415-FL	S2BC-415-HD	S2C-500	S2B-415-FL	S2B-415-HD	500 Grp
4	7/8	233.9	S2BC-500-FL	S2BC-500-HD	S2C-500	S2B-500-FL	S2B-500-HD	500 Grp
4	7/8	233.9	S2BC-120MM-FL	S2BC-120MM-HD	S2C-500	S2B-120MM-FL	S2B-120MM-HD	500 Grp
4	7/8	233.9	S2BC-125MM-FL	S2BC-125MM-HD	S2C-500	S2B-125MM-FL	S2B-125MM-HD	500 Grp
4	7/8	233.9	S2BC-130MM-FL	S2BC-130MM-HD	S2C-500	S2B-130MM-FL	S2B-130MM-HD	500 Grp
4	1	319.9	S2BC-503-FL	S2BC-503-HD	S2C-508	S2B-503-FL	S2B-503-HD	508 Grp
4	1	319.9	S2BC-507-FL	S2BC-507-HD	S2C-508	S2B-507-FL	S2B-507-HD	508 Grp
4	1	319.9	S2BC-508-FL	S2BC-508-HD	S2C-508	S2B-508-FL	S2B-508-HD	508 Grp
4	1	319.9	S2BC-140MM-FL	S2BC-140MM-HD	S2C-508	S2B-140MM-FL	S2B-140MM-HD	508 Grp
4	1	373.9	S2BC-515-FL	S2BC-515-HD	S2C-600	S2B-515-FL	S2B-515-HD	600 Grp
4	1	373.9	S2BC-600-FL	S2BC-600-HD	S2C-600	S2B-600-FL	S2B-600-HD	600 Grp
4	1	373.9	S2BC-150MM-FL	S2BC-150MM-HD	S2C-600	S2B-150MM-FL	S2B-150MM-HD	600 Grp
4	1	373.9	S2BC-155MM-FL	S2BC-155MM-HD	S2C-600	S2B-155MM-FL	S2B-155MM-HD	600 Grp

Split Cylindrical Roller Bearing

S2 series small bore



S2BC...-FL

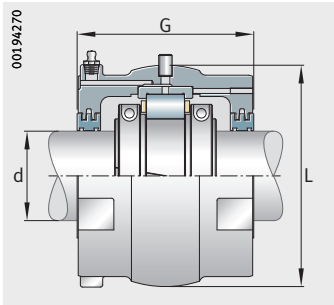
Dimension table (continued) - Dimensions in inch

Shaft diameter		Cartridge assembly						
		Float bearing	Held bearing	Dimension		Grease capacity	Cartridge	
d	G			L ¹⁾	lbs			Weight
inch	mm							lbs
4 ^{11/16}	–	S2BC-411-FL	S2BC-411-HD	7 ^{1/4}	11 ^{5/8}	2.50	S2C-500	111.5
4 ^{15/16}	–	S2BC-415-FL	S2BC-415-HD	7 ^{1/4}	11 ^{5/8}	2.50	S2C-500	111.5
5	–	S2BC-500-FL	S2BC-500-HD	7 ^{1/4}	11 ^{5/8}	2.50	S2C-500	111.5
–	120	S2BC-120MM-FL	S2BC-120MM-HD	7 ^{1/4}	11 ^{5/8}	2.50	S2C-500	111.5
–	125	S2BC-125MM-FL	S2BC-125MM-HD	7 ^{1/4}	11 ^{5/8}	2.50	S2C-500	111.5
–	130	S2BC-130MM-FL	S2BC-130MM-HD	7 ^{1/4}	11 ^{5/8}	2.50	S2C-500	111.5
5 ^{3/16}	–	S2BC-503-FL	S2BC-503-HD	7 ^{3/8}	12 ^{3/4}	3.00	S2C-508	138.3
5 ^{7/16}	–	S2BC-507-FL	S2BC-507-HD	7 ^{3/8}	12 ^{3/4}	3.00	S2C-508	138.3
5 ^{1/2}	–	S2BC-508-FL	S2BC-508-HD	7 ^{3/8}	12 ^{3/4}	3.00	S2C-508	138.3
–	140	S2BC-140MM-FL	S2BC-140MM-HD	7 ^{3/8}	12 ^{3/4}	3.00	S2C-508	138.3
5 ^{15/16}	–	S2BC-515-FL	S2BC-515-HD	7 ^{15/16}	13 ^{1/4}	3.00	S2C-600	162.0
6	–	S2BC-600-FL	S2BC-600-HD	7 ^{15/16}	13 ^{1/4}	3.00	S2C-600	162.0
–	150	S2BC-150MM-FL	S2BC-150MM-HD	7 ^{15/16}	13 ^{1/4}	3.00	S2C-600	162.0
–	155	S2BC-155MM-FL	S2BC-155MM-HD	7 ^{15/16}	13 ^{1/4}	3.00	S2C-600	162.0

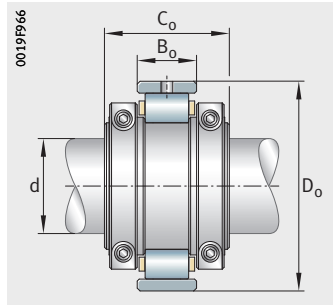
Mounted unit, see page 76.

1) Length through bore.

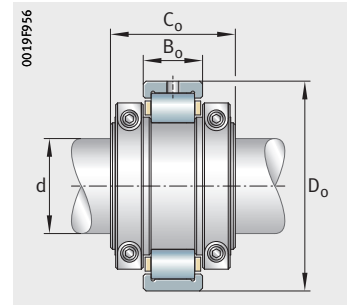
2) Based on axial capacity at 1000 min⁻¹.



S2BC...-HD



S2BC...-FL



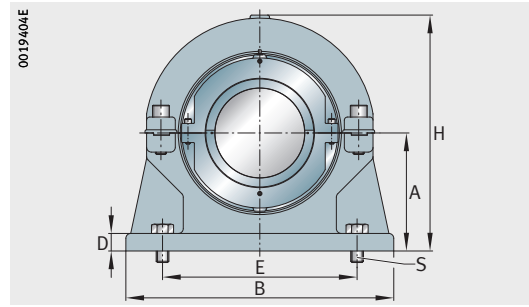
S2BC...-HD

Bearing

Float bearing	Held bearing	Bearing rating				Dimension			Weight lbs	Group
		dyn. C _r lbs	stat. C ₀ lbs	axial C _a ²⁾ lbs	max. Speed min ⁻¹	D _o	C _o	B _o		
S2B-411-FL	S2B-411-HD	111 370	162 763	951	1 780	10	4.5	2.5	55.0	500 Grp
S2B-415-FL	S2B-415-HD	111 370	162 763	951	1 780	10	4.5	2.5	55.0	500 Grp
S2B-500-FL	S2B-500-HD	111 370	162 763	951	1 780	10	4.5	2.5	55.0	500 Grp
S2B-120MM-FL	S2B-120MM-HD	111 370	162 763	951	1 780	10	4.5	2.5	55.0	500 Grp
S2B-125MM-FL	S2B-125MM-HD	111 370	162 763	951	1 780	10	4.5	2.5	55.0	500 Grp
S2B-130MM-FL	S2B-130MM-HD	111 370	162 763	951	1 780	10	4.5	2.5	55.0	500 Grp
S2B-503-FL	S2B-503-HD	133 700	197 779	1 060	1 630	10.75	4.625	2.625	58.3	508 Grp
S2B-507-FL	S2B-507-HD	133 700	197 779	1 060	1 630	10.75	4.625	2.625	58.3	508 Grp
S2B-508-FL	S2B-508-HD	133 700	197 779	1 060	1 630	10.75	4.625	2.625	58.3	508 Grp
S2B-140MM-FL	S2B-140MM-HD	133 700	197 779	1 060	1 630	10.75	4.625	2.625	58.3	508 Grp
S2B-515-FL	S2B-515-HD	147 326	229 303	1 138	1 450	11.5	4.875	2.668	70.4	600 Grp
S2B-600-FL	S2B-600-HD	147 326	229 303	1 138	1 450	11.5	4.875	2.668	70.4	600 Grp
S2B-150MM-FL	S2B-150MM-HD	147 326	229 303	1 138	1 450	11.5	4.875	2.688	70.4	600 Grp
S2B-155MM-FL	S2B-155MM-HD	147 326	229 303	1 138	1 450	11.5	4.875	2.688	70.4	600 Grp

Split Cylindrical Roller Bearing

S2 series large bore



Dimension table - Dimensions in inch

Mounted unit

Shaft diameter d		Complete component		Pedestal housing	Dimension							
					Float bearing	Held bearing	B	H	A ¹⁾	C ²⁾	D	E
		min.	max.									
6 ^{7/16}	–	S2BCH-607-FL	S2BCH-607-HD	PH-22	23 ^{1/2}	21	10 ^{1/2}	9 ^{1/2}	1 ^{3/4}	16 ^{7/8}	18 ^{3/8}	6 ^{3/4}
6 ^{1/2}	–	S2BCH-608-FL	S2BCH-608-HD	PH-22	23 ^{1/2}	21	10 ^{1/2}	9 ^{1/2}	1 ^{3/4}	16 ^{7/8}	18 ^{3/8}	6 ^{3/4}
–	160	S2BCH-160MM-FL	S2BCH-160MM-HD	PH-22	23 ^{1/2}	21	10 ^{1/2}	9 ^{1/2}	1 ^{3/4}	16 ^{7/8}	18 ^{3/8}	6 ^{3/4}
–	170	S2BCH-170MM-FL	S2BCH-170MM-HD	PH-22	23 ^{1/2}	21	10 ^{1/2}	9 ^{1/2}	1 ^{3/4}	16 ^{7/8}	18 ^{3/8}	6 ^{3/4}
6 ^{15/16}	–	S2BCH-615-FL	S2BCH-615-HD	PH-23	25	21 ^{1/2}	10 ^{3/4}	9 ^{1/2}	1 ^{3/4}	17 ^{1/4}	18 ^{3/4}	6 ^{1/2}
7	–	S2BCH-700-FL	S2BCH-700-HD	PH-23	25	21 ^{1/2}	10 ^{3/4}	9 ^{1/2}	1 ^{3/4}	17 ^{1/4}	18 ^{3/4}	6 ^{1/2}
–	180	S2BCH-180MM-FL	S2BCH-180MM-HD	PH-23	25	21 ^{1/2}	10 ^{3/4}	9 ^{1/2}	1 ^{3/4}	17 ^{1/4}	18 ^{3/4}	6 ^{1/2}
7 ^{1/2}	–	S2BCH-708-FL	S2BCH-708-HD	PH-24	27	23 ^{7/8}	12	10 ^{1/2}	2	19 ^{1/4}	20 ^{3/4}	7 ^{1/2}
7 ^{15/16}	–	S2BCH-715-FL	S2BCH-715-HD	PH-24	27	23 ^{7/8}	12	10 ^{1/2}	2	19 ^{1/4}	20 ^{3/4}	7 ^{1/2}
8	–	S2BCH-800-FL	S2BCH-800-HD	PH-24	27	23 ^{7/8}	12	10 ^{1/2}	2	19 ^{1/4}	20 ^{3/4}	7 ^{1/2}
–	190	S2BCH-190MM-FL	S2BCH-190MM-HD	PH-24	27	23 ^{7/8}	12	10 ^{1/2}	2	19 ^{1/4}	20 ^{3/4}	7 ^{1/2}
–	200	S2BCH-200MM-FL	S2BCH-200MM-HD	PH-24	27	23 ^{7/8}	12	10 ^{1/2}	2	19 ^{1/4}	20 ^{3/4}	7 ^{1/2}
8 ^{1/2}	–	S2BCH-808-FL	S2BCH-808-HD	PH-25	29 ^{1/2}	25 ^{1/4}	12 ^{3/4}	11	2	20 ^{7/8}	22 ^{3/8}	7 ^{1/2}
9	–	S2BCH-900-FL	S2BCH-900-HD	PH-25	29 ^{1/2}	25 ^{1/4}	12 ^{3/4}	11	2	20 ^{7/8}	22 ^{3/8}	7 ^{1/2}
–	220	S2BCH-220MM-FL	S2BCH-220MM-HD	PH-25	29 ^{1/2}	25 ^{1/4}	12 ^{3/4}	11	2	20 ^{7/8}	22 ^{3/8}	7 ^{1/2}
–	230	S2BCH-230MM-FL	S2BCH-230MM-HD	PH-25	29 ^{1/2}	25 ^{1/4}	12 ^{3/4}	11	2	20 ^{7/8}	22 ^{3/8}	7 ^{1/2}
9 ^{1/2}	–	S2BCH-908-FL	S2BCH-908-HD	PH-26	32	28	14	11 ^{1/2}	2 ^{1/8}	22 ^{3/4}	24 ^{1/4}	8
10	–	S2BCH-1000-FL	S2BCH-1000-HD	PH-26	32	28	14	11 ^{1/2}	2 ^{1/8}	22 ^{3/4}	24 ^{1/4}	8
–	240	S2BCH-240MM-FL	S2BCH-240MM-HD	PH-26	32	28	14	11 ^{1/2}	2 ^{1/8}	22 ^{3/4}	24 ^{1/4}	8
–	260	S2BCH-260MM-FL	S2BCH-260MM-HD	PH-26	32	28	14	11 ^{1/2}	2 ^{1/8}	22 ^{3/4}	24 ^{1/4}	8

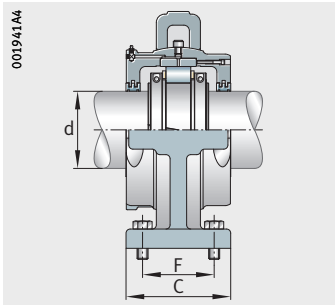
Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.

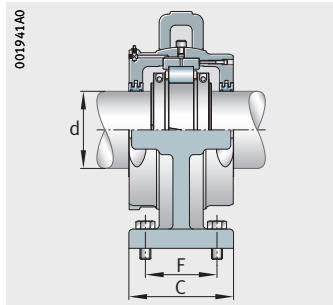
Cartridge assembly and roller bearing, see page 82.

¹⁾ Base to shaft center height can be altered upon request.

²⁾ Housing width only.



S2BCH..-FL

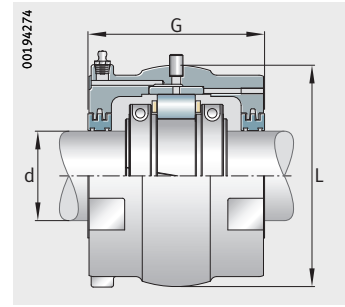


S2BCH..-HD

Bolt		Weight	Cartridge assembly			Bearing		Group
			Float bearing	Held bearing	Cartridge	Float bearing	Held bearing	
Num-ber	Diam-eter	lbs						
4	1 1/4	406.9	S2BC-607-FL	S2BC-607-HD	S2C-608	S2B-607-FL	S2B-607-HD	608 Grp
4	1 1/4	406.9	S2BC-608-FL	S2BC-608-HD	S2C-608	S2B-608-FL	S2B-608-HD	608 Grp
4	1 1/4	406.9	S2BC-160MM-FL	S2BC-160MM-HD	S2C-608	S2B-160MM-FL	S2B-160MM-HD	608 Grp
4	1 1/4	406.9	S2BC-170MM-FL	S2BC-170MM-HD	S2C-608	S2B-170MM-FL	S2B-170MM-HD	608 Grp
4	1 1/4	477.9	S2BC-615-FL	S2BC-615-HD	S2C-700	S2B-615-FL	S2B-615-HD	700 Grp
4	1 1/4	477.9	S2BC-700-FL	S2BC-700-HD	S2C-700	S2B-700-FL	S2B-700-HD	700 Grp
4	1 1/4	477.9	S2BC-180MM-FL	S2BC-180MM-HD	S2C-700	S2B-180MM-FL	S2B-180MM-HD	700 Grp
4	1 1/4	645.8	S2BC-708-FL	S2BC-708-HD	S2C-800	S2B-708-FL	S2B-708-HD	800 Grp
4	1 1/4	645.8	S2BC-715-FL	S2BC-715-HD	S2C-800	S2B-715-FL	S2B-715-HD	800 Grp
4	1 1/4	645.8	S2BC-800-FL	S2BC-800-HD	S2C-800	S2B-800-FL	S2B-800-HD	800 Grp
4	1 1/4	645.8	S2BC-190MM-FL	S2BC-190MM-HD	S2C-800	S2B-190MM-FL	S2B-190MM-HD	800 Grp
4	1 1/4	645.8	S2BC-200MM-FL	S2BC-200MM-HD	S2C-800	S2B-200MM-FL	S2B-200MM-HD	800 Grp
4	1 1/2	806.8	S2BC-808-FL	S2BC-808-HD	S2C-900	S2B-808-FL	S2B-808-HD	900 Grp
4	1 1/2	806.8	S2BC-900-FL	S2BC-900-HD	S2C-900	S2B-900-FL	S2B-900-HD	900 Grp
4	1 1/2	806.8	S2BC-220MM-FL	S2BC-220MM-HD	S2C-900	S2B-220MM-FL	S2B-220MM-HD	900 Grp
4	1 1/2	806.8	S2BC-230MM-FL	S2BC-230MM-HD	S2C-900	S2B-230MM-FL	S2B-230MM-HD	900 Grp
4	1 1/4	937.7	S2BC-908-FL	S2BC-908-HD	S2C-1000	S2B-908-FL	S2B-908-HD	1000 Grp
4	1 1/4	937.7	S2BC-1000-FL	S2BC-1000-HD	S2C-1000	S2B-1000-FL	S2B-1000-HD	1000 Grp
4	1 1/4	937.7	S2BC-240MM-FL	S2BC-240MM-HD	S2C-1000	S2B-240MM-FL	S2B-240MM-HD	1000 Grp
4	1 1/4	937.7	S2BC-260MM-FL	S2BC-260MM-HD	S2C-1000	S2B-260MM-FL	S2B-260MM-HD	1000 Grp

Split Cylindrical Roller Bearing

S2 series large bore



S2BCF..-FL

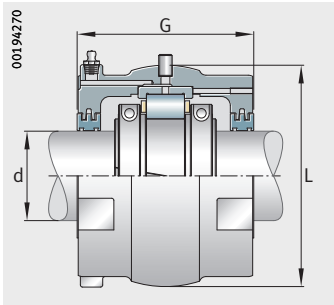
Dimension table (continued) - Dimensions in inch

Shaft diameter		Cartridge assembly						
		Float bearing	Held bearing	Dimension		Grease capacity	Cartridge	
d				G	L ¹⁾		lbs	
inch	mm							lbs
6 ^{7/16}	–	S2BC-607-FL	S2BC-607-HD	9 ^{1/8}	14 ^{1/2}	3.20	S2C-608	230.9
6 ^{1/2}	–	S2BC-608-FL	S2BC-608-HD	9 ^{1/8}	14 ^{1/2}	3.20	S2C-608	230.9
–	160	S2BC-160MM-FL	S2BC-160MM-HD	9 ^{1/8}	14 ^{1/2}	3.20	S2C-608	230.9
–	170	S2BC-170MM-FL	S2BC-170MM-HD	9 ^{1/8}	14 ^{1/2}	3.20	S2C-608	230.9
6 ^{15/16}	–	S2BC-615-FL	S2BC-615-HD	9 ^{1/2}	15	4.30	S2C-700	267.9
7	–	S2BC-700-FL	S2BC-700-HD	9 ^{1/2}	15	4.30	S2C-700	267.9
–	180	S2BC-180MM-FL	S2BC-180MM-HD	9 ^{1/2}	15	4.30	S2C-700	267.9
7 ^{1/2}	–	S2BC-708-FL	S2BC-708-HD	10 ^{1/16}	16 ^{3/4}	5.90	S2C-800	344.9
7 ^{15/16}	–	S2BC-715-FL	S2BC-715-HD	10 ^{1/16}	16 ^{3/4}	5.90	S2C-800	344.9
8	–	S2BC-800-FL	S2BC-800-HD	10 ^{1/16}	16 ^{3/4}	5.90	S2C-800	344.9
–	190	S2BC-190MM-FL	S2BC-190MM-HD	10 ^{1/16}	16 ^{3/4}	5.90	S2C-800	344.9
–	200	S2BC-200MM-FL	S2BC-200MM-HD	10 ^{1/16}	16 ^{3/4}	5.90	S2C-800	344.9
8 ^{1/2}	–	S2BC-808-FL	S2BC-808-HD	10 ^{13/16}	18	8.00	S2C-900	363.9
9	–	S2BC-900-FL	S2BC-900-HD	10 ^{13/16}	18	8.00	S2C-900	363.9
–	220	S2BC-220MM-FL	S2BC-220MM-HD	10 ^{13/16}	18	8.00	S2C-900	363.9
–	230	S2BC-230MM-FL	S2BC-230MM-HD	10 ^{13/16}	18	8.00	S2C-900	363.9
9 ^{1/2}	–	S2BC-908-FL	S2BC-908-HD	11 ^{1/16}	19 ^{1/2}	8.90	S2C-1000	439.9
10	–	S2BC-1000-FL	S2BC-1000-HD	11 ^{1/16}	19 ^{1/2}	8.90	S2C-1000	439.9
–	240	S2BC-240MM-FL	S2BC-240MM-HD	11 ^{1/16}	19 ^{1/2}	8.90	S2C-1000	439.9
–	260	S2BC-260MM-FL	S2BC-260MM-HD	11 ^{1/16}	19 ^{1/2}	8.90	S2C-1000	439.9

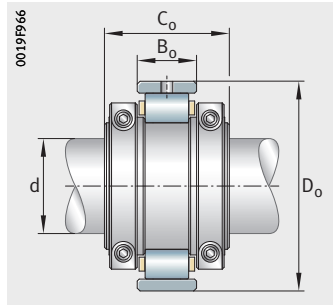
Mounted unit, see page 80.

1) Length through bore.

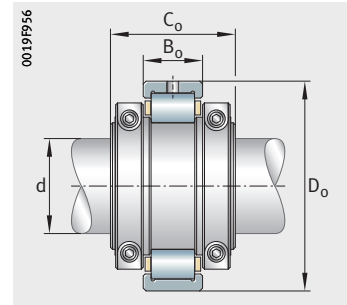
2) Based on axial capacity at 1000 min⁻¹.



S2BCH..-HD



S2BCF..-FL



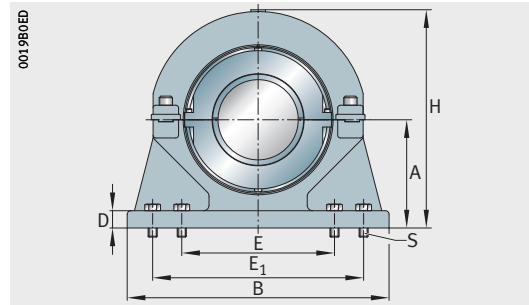
S2BCH..-HD

Bearing

Float bearing	Held bearing	Bearing rating				Dimension			Weight lbs	Group
		dyn. C _r lbs	stat. C ₀ lbs	axial C _a ⁽²⁾ lbs	max. Speed min ⁻¹	D ₀	C ₀	B ₀		
S2B-607-FL	S2B-607-HD	156 220	237 758	10 907	1 407	12.5	5.5	3.281	93.5	608 Grp
S2B-608-FL	S2B-608-HD	156 220	237 758	10 907	1 407	12.5	5.5	3.281	93.5	608 Grp
S2B-160MM-FL	S2B-160MM-HD	156 220	237 758	10 907	1 407	12.5	5.5	3.281	93.5	608 Grp
S2B-170MM-FL	S2B-170MM-HD	156 220	237 758	10 907	1 407	12.5	5.5	3.281	93.5	608 Grp
S2B-615-FL	S2B-615-HD	165 129	259 839	11 925	1 336	13	5.5	3.281	110.0	700 Grp
S2B-700-FL	S2B-700-HD	165 129	259 839	11 925	1 336	13	5.5	3.281	110.0	700 Grp
S2B-180MM-FL	S2B-180MM-HD	165 129	259 839	11 925	1 336	13	5.5	3.281	110.0	700 Grp
S2B-708-FL	S2B-708-HD	200 010	325 896	12 501	1 188	14.5	6.141	3.563	134.0	800 Grp
S2B-715-FL	S2B-715-HD	200 010	325 896	12 501	1 188	14.5	6.141	3.563	134.0	800 Grp
S2B-800-FL	S2B-800-HD	200 010	325 896	12 501	1 188	14.5	6.141	3.563	134.0	800 Grp
S2B-190MM-FL	S2B-190MM-HD	200 010	325 896	12 501	1 188	14.5	6.141	3.563	134.0	800 Grp
S2B-200MM-FL	S2B-200MM-HD	200 010	325 896	12 501	1 188	14.5	6.141	3.563	134.0	800 Grp
S2B-808-FL	S2B-808-HD	216 837	371 687	13 051	1 091	15.5	6.402	3.563	148.0	900 Grp
S2B-900-FL	S2B-900-HD	216 837	371 687	13 051	1 091	15.5	6.402	3.563	148.0	900 Grp
S2B-220MM-FL	S2B-220MM-HD	216 837	371 687	13 051	1 091	15.5	6.402	3.563	148.0	900 Grp
S2B-230MM-FL	S2B-230MM-HD	216 837	371 687	13 051	1 091	15.5	6.402	3.563	148.0	900 Grp
S2B-908-FL	S2B-908-HD	246 011	427 712	13 763	990	17	6.668	3.813	186.9	1000 Grp
S2B-1000-FL	S2B-1000-HD	246 011	427 712	13 763	990	17	6.668	3.813	186.9	1000 Grp
S2B-240MM-FL	S2B-240MM-HD	246 011	427 712	13 763	990	17	6.668	3.813	186.9	1000 Grp
S2B-260MM-FL	S2B-260MM-HD	246 011	427 712	13 763	990	17	6.668	3.813	186.9	1000 Grp

Split Cylindrical Roller Bearing

S2 series large bore



Dimension table (continued) · Dimensions in inch

Mounted unit

Shaft diameter d		Complete component		Pedestal housing	Dimension								
		Float bearing	Held bearing		B	H	A ¹⁾	C ²⁾	D	E		E ₁	
inch	mm			min.						max.	min.	max.	
10 ^{1/2}	–	S2BCH-1008-FL	S2BCH-1008-HD	PH-27	36	30	14 ^{7/8}	13	2 ^{3/8}	20 ^{1/4}	21 ^{3/4}	28 ^{1/4}	29 ^{3/4}
11	–	S2BCH-1100-FL	S2BCH-1100-HD	PH-27	36	30	14 ^{7/8}	13	2 ^{3/8}	20 ^{1/4}	21 ^{3/4}	28 ^{1/4}	29 ^{3/4}
–	280	S2BCH-280MM-FL	S2BCH-280MM-HD	PH-27	36	30	14 ^{7/8}	13	2 ^{3/8}	20 ^{1/4}	21 ^{3/4}	28 ^{1/4}	29 ^{3/4}
11 ^{1/2}	–	S2BCH-1108-FL	S2BCH-1108-HD	PH-28	37 ^{3/4}	31	15 ^{1/2}	13	2 ^{3/8}	21 ^{1/2}	23	29 ^{1/2}	31
12	–	S2BCH-1200-FL	S2BCH-1200-HD	PH-28	37 ^{3/4}	31	15 ^{1/2}	13	2 ^{3/8}	21 ^{1/2}	23	29 ^{1/2}	31
–	300	S2BCH-300MM-FL	S2BCH-300MM-HD	PH-28	37 ^{3/4}	31	15 ^{1/2}	13	2 ^{3/8}	21 ^{1/2}	23	29 ^{1/2}	31
12 ^{1/2}	–	S2BCH-1208-FL	S2BCH-1208-HD	PH-29	40	33	16 ^{1/2}	11 ^{1/2}	2 ^{1/2}	23 ^{1/4}	24 ^{13/16}	31 ^{1/4}	32 ^{13/16}
12 ^{3/4}	–	S2BCH-1300-FL	S2BCH-1300-HD	PH-29	40	33	16 ^{1/2}	11 ^{1/2}	2 ^{1/2}	23 ^{1/4}	24 ^{13/16}	31 ^{1/4}	32 ^{13/16}
–	320	S2BCH-320MM-FL	S2BCH-320MM-HD	PH-29	40	33	16 ^{1/2}	11 ^{1/2}	2 ^{1/2}	23 ^{1/4}	24 ^{13/16}	31 ^{1/4}	32 ^{13/16}
14	–	S2BCH-1400-FL	S2BCH-1400-HD	PH-30	43	35 ^{1/2}	17 ^{3/4}	14 ^{1/2}	2 ^{1/2}	25 ^{3/16}	26 ^{3/4}	33 ^{3/16}	34 ^{3/4}
–	340	S2BCH-340MM-FL	S2BCH-340MM-HD	PH-30	43	35 ^{1/2}	17 ^{3/4}	14 ^{1/2}	2 ^{1/2}	25 ^{3/16}	26 ^{3/4}	33 ^{3/16}	34 ^{3/4}
–	360	S2BCH-360MM-FL	S2BCH-360MM-HD	PH-30	43	35 ^{1/2}	17 ^{3/4}	14 ^{1/2}	2 ^{1/2}	25 ^{3/16}	26 ^{3/4}	33 ^{3/16}	34 ^{3/4}
15	–	S2BCH-1500-FL	S2BCH-1500-HD	PH-31	43	36 ^{1/2}	18 ^{1/4}	14 ^{1/2}	2 ^{5/8}	34 ^{1/16}	35 ^{5/8}	26 ^{1/16}	27 ^{5/8}
–	380	S2BCH-380MM-FL	S2BCH-380MM-HD	PH-31	43	36 ^{1/2}	18 ^{1/4}	14 ^{1/2}	2 ^{5/8}	26 ^{1/16}	27 ^{5/8}	34 ^{1/16}	35 ^{5/8}
15 ^{1/2}	–	S2BCH-1508-FL	S2BCH-1508-HD	PH-32	46	39	19 ^{1/2}	14 ^{1/2}	2 ^{3/4}	27 ^{15/16}	29 ^{1/2}	35 ^{15/16}	37 ^{1/2}
16	–	S2BCH-1600-FL	S2BCH-1600-HD	PH-32	46	39	19 ^{1/2}	14 ^{1/2}	2 ^{3/4}	27 ^{15/16}	29 ^{1/2}	35 ^{15/16}	37 ^{1/2}
–	400	S2BCH-400MM-FL	S2BCH-400MM-HD	PH-32	46	39	19 ^{1/2}	14 ^{1/2}	2 ^{3/4}	27 ^{15/16}	29 ^{1/2}	35 ^{15/16}	37 ^{1/2}

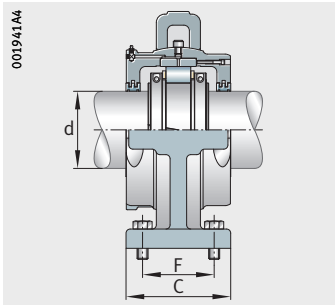
Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.

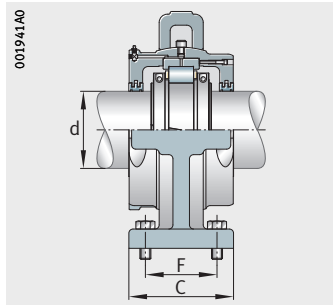
Cartridge assembly and roller bearing, see page 86.

1) Base to shaft center height can be altered upon request.

2) Housing width only.



S2BCH..-FL

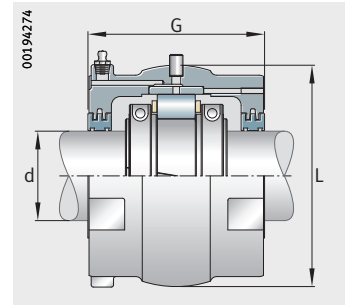


S2BCH..-HD

			Cartridge assembly				Bearing		
F	Bolt		Weight lbs	Float bearing	Held bearing	Cartridge	Float bearing	Held bearing	Group
	Num-ber	Diam-eter							
10	8	1 ¹ / ₄	1 125.7	S2BC-1008-FL	S2BC-1008-HD	S2C-1100	S2B-1008-FL	S2B-1008-HD	1100 Grp
10	8	1 ¹ / ₄	1 125.7	S2BC-1100-FL	S2BC-1100-HD	S2C-1100	S2B-1100-FL	S2B-1100-HD	1100 Grp
10	8	1 ¹ / ₄	1 125.7	S2BC-280MM-FL	S2BC-280MM-HD	S2C-1100	S2B-280MM-FL	S2B-280MM-HD	1100 Grp
10	8	1 ¹ / ₄	1 294.6	S2BC-1108-FL	S2BC-1108-HD	S2C-1200	S2B-1108-FL	S2B-1108-HD	1200 Grp
10	8	1 ¹ / ₄	1 294.6	S2BC-1200-FL	S2BC-1200-HD	S2C-1200	S2B-1200-FL	S2B-1200-HD	1200 Grp
10	8	1 ¹ / ₄	1 294.6	S2BC-300MM-FL	S2BC-300MM-HD	S2C-1200	S2B-300MM-FL	S2B-300MM-HD	1200 Grp
8 ¹ / ₄	8	1 ¹ / ₄	1 559.6	S2BC-1208-FL	S2BC-1208-HD	S2C-1300	S2B-1208-FL	S2B-1208-HD	1300 Grp
8 ¹ / ₄	8	1 ¹ / ₄	1 559.6	S2BC-1300-FL	S2BC-1300-HD	S2C-1300	S2B-1300-FL	S2B-1300-HD	1300 Grp
8 ¹ / ₄	8	1 ¹ / ₄	1 559.6	S2BC-320MM-FL	S2BC-320MM-HD	S2C-1300	S2B-320MM-FL	S2B-320MM-HD	1300 Grp
11	8	1 ¹ / ₄	1 741.5	S2BC-1400-FL	S2BC-1400-HD	S2C-1400	S2B-1400-FL	S2B-1400-HD	1400 Grp
11	8	1 ¹ / ₄	1 741.5	S2BC-340MM-FL	S2BC-340MM-HD	S2C-1400	S2B-340MM-FL	S2B-340MM-HD	1400 Grp
11	8	1 ¹ / ₄	1 741.5	S2BC-360MM-FL	S2BC-360MM-HD	S2C-1400	S2B-360MM-FL	S2B-360MM-HD	1400 Grp
11	8	1 ¹ / ₄	1 852.5	S2BC-1500-FL	S2BC-1500-HD	S2C-1500	S2B-1500-FL	S2B-1500-HD	1500 Grp
11	8	1 ¹ / ₄	1 852.5	S2BC-380MM-FL	S2BC-380MM-HD	S2C-1500	S2B-380MM-FL	S2B-380MM-HD	1500 Grp
11	8	1 ¹ / ₄	2 199.4	S2BC-1508-FL	S2BC-1508-HD	S2C-1600	S2B-1508-FL	S2B-1508-HD	1600 Grp
11	8	1 ¹ / ₄	2 199.4	S2BC-1600-FL	S2BC-1600-HD	S2C-1600	S2B-1600-FL	S2B-1600-HD	1600 Grp
11	8	1 ¹ / ₄	2 199.4	S2BC-400MM-FL	S2BC-400MM-HD	S2C-1600	S2B-400MM-FL	S2B-400MM-HD	1600 Grp

Split Cylindrical Roller Bearing

S2 series large bore



S2BCF..-FL

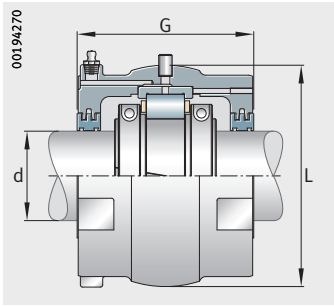
Dimension table (continued) - Dimensions in inch

Shaft diameter		Cartridge assembly						
		Float bearing	Held bearing	Dimension		Grease capacity	Cartridge	
d	G			L ¹⁾	lbs			Weight
inch	mm							lbs
10 ^{1/2}	–	S2BC-1008-FL	S2BC-1008-HD	11 ^{13/16}	20 ^{3/4}	10.40	S2C-1100	524.9
11	–	S2BC-1100-FL	S2BC-1100-HD	11 ^{13/16}	20 ^{3/4}	10.40	S2C-1100	524.9
–	280	S2BC-280MM-FL	S2BC-280MM-HD	11 ^{13/16}	20 ^{3/4}	10.40	S2C-1100	524.9
11 ^{1/2}	–	S2BC-1108-FL	S2BC-1108-HD	12 ^{1/16}	21 ^{3/4}	11.80	S2C-1200	599.8
12	–	S2BC-1200-FL	S2BC-1200-HD	12 ^{1/16}	21 ^{3/4}	11.80	S2C-1200	599.8
–	300	S2BC-300MM-FL	S2BC-300MM-HD	12 ^{1/16}	21 ^{3/4}	11.80	S2C-1200	599.8
12 ^{1/2}	–	S2BC-1208-FL	S2BC-1208-HD	13	23 ^{1/8}	16.00	S2C-1300	689.8
123	–	S2BC-1300-FL	S2BC-1300-HD	13	23 ^{1/8}	16.00	S2C-1300	689.8
–	320	S2BC-320MM-FL	S2BC-320MM-HD	13	23 ^{1/8}	16.00	S2C-1300	689.8
14	–	S2BC-1400-FL	S2BC-1400-HD	13 ^{1/2}	24 ^{3/4}	15.90	S2C-1400	799.8
–	340	S2BC-340MM-FL	S2BC-340MM-HD	13 ^{1/2}	24 ^{3/4}	15.90	S2C-1400	799.8
–	360	S2BC-360MM-FL	S2BC-360MM-HD	13 ^{1/2}	24 ^{3/4}	15.90	S2C-1400	799.8
15	–	S2BC-1500-FL	S2BC-1500-HD	13 ^{1/2}	25 ^{1/2}	17.00	S2C-1500	881.8
–	380	S2BC-380MM-FL	S2BC-380MM-HD	13 ^{1/2}	25 ^{1/2}	17.00	S2C-1500	881.8
15 ^{1/2}	–	S2BC-1508-FL	S2BC-1508-HD	13 ^{1/4}	27	19.99	S2C-1600	1 104.7
16	–	S2BC-1600-FL	S2BC-1600-HD	13 ^{1/4}	27	19.99	S2C-1600	1 104.7
–	400	S2BC-400MM-FL	S2BC-400MM-HD	13 ^{1/4}	27	19.99	S2C-1600	1 104.7

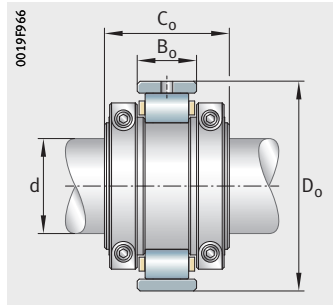
Mounted unit, see page 84.

1) Length through bore.

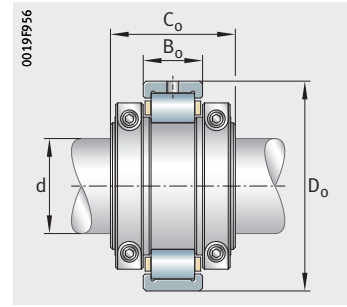
2) Based on axial capacity at 1000 min⁻¹.



S2BCH..-HD



S2BCF..-FL



S2BCH..-HD

Bearing

Float bearing	Held bearing	Bearing rating				Dimension			Weight lbs	Group
		dyn. C _r lbs	stat. C ₀ lbs	axial C _a ²⁾ lbs	max. Speed min ⁻¹	D ₀	C ₀	B ₀		
S2B-1008-FL	S2B-1008-HD	279 628	492 681	14 607	914	18.25	7.323	4	208.9	1100 Grp
S2B-1100-FL	S2B-1100-HD	279 628	492 681	14 607	914	18.25	7.323	4	208.9	1100 Grp
S2B-280MM-FL	S2B-280MM-HD	279 628	492 681	14 607	914	18.25	7.323	4	208.9	1100 Grp
S2B-1108-FL	S2B-1108-HD	301 125	555 316	15 192	850	19.5	7.594	4.063	296.9	1200 Grp
S2B-1200-FL	S2B-1200-HD	301 125	555 316	15 192	850	19.5	7.594	4.063	296.9	1200 Grp
S2B-300MM-FL	S2B-300MM-HD	301 125	555 316	15 192	850	19.5	7.594	4.063	296.9	1200 Grp
S2B-1208-FL	S2B-1208-HD	309 649	589 875	14 176	785	20.75	7.559	4.189	324.9	1300 Grp
S2B-1300-FL	S2B-1300-HD	309 649	589 875	14 176	785	20.75	7.559	4.189	324.9	1300 Grp
S2B-320MM-FL	S2B-320MM-HD	309 649	589 875	14 176	785	20.75	7.559	4.189	324.9	1300 Grp
S2B-1400-FL	S2B-1400-HD	359 847	683 122	16 057	737	22.25	7.784	4.563	404.9	1400 Grp
S2B-340MM-FL	S2B-340MM-HD	359 847	683 122	16 057	737	22.25	7.784	4.563	404.9	1400 Grp
S2B-360MM-FL	S2B-360MM-HD	359 847	683 122	16 057	737	22.25	7.784	4.563	404.9	1400 Grp
S2B-1500-FL	S2B-1500-HD	385 957	761 112	16 923	703	23	7.874	4.374	409.9	1500 Grp
S2B-380MM-FL	S2B-380MM-HD	385 957	761 112	16 923	703	23	7.874	4.374	409.9	1500 Grp
S2B-1508-FL	S2B-1508-HD	428 302	850 032	17 998	665	24.25	7.874	4.563	462.9	1600 Grp
S2B-1600-FL	S2B-1600-HD	428 302	850 032	17 998	665	24.25	7.874	4.563	462.9	1600 Grp
S2B-400MM-FL	S2B-400MM-HD	428 302	850 032	17 998	665	24.25	7.874	4.563	462.9	1600 Grp

S2 Series Load Chart

Maximum speed
Maximum load at speed

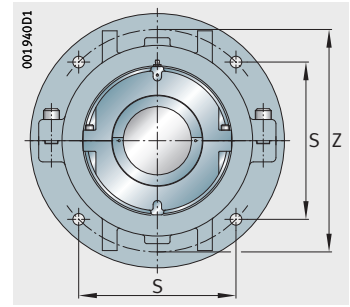
Dimension table											
Bearing Group	Maximum speed Limit min ⁻¹	Maximum load at speed									
		50 min ⁻¹		100 min ⁻¹		250 min ⁻¹		500 min ⁻¹		750 min ⁻¹	
		P _r	P _a	P _r	P _a	P _r	P _a	P _r	P _a	P _r	P _a
S2-208	3 750	7 255	2 143	5 893	2 143	4 476	1 892	3 636	946	3 220	631
S2-300	3 190	9 813	2 963	7 971	2 963	6 055	2 244	4 918	1 122	4 355	748
S2-308	2 740	12 408	3 979	10 078	3 979	7 656	2 664	6 219	1 332	5 506	888
S2-400	2 400	16 016	5 251	13 009	5 251	9 882	3 044	8 027	1 522	7 107	1 015
S2-408	2 140	19 749	6 557	16 041	6 557	12 186	3 428	9 898	1 714	8 764	1 143
S2-500	1 940	24 050	8 135	19 535	8 135	14 840	3 804	12 054	1 902	10 673	1 268
S2-508	1 780	28 873	9 885	23 452	9 885	17 815	4 240	14 471	2 120	12 813	1 413
S2-600	1 670	31 815	11 460	25 842	11 370	19 631	4 548	15 945	2 274	14 119	1 516
S2-608	1 550	33 736	11 883	27 402	10 902	20 816	4 361	16 908	2 180	14 971	1 454
S2-700	1 465	35 660	12 986	28 965	11 920	22 003	4 768	17 872	2 384	15 825	1 589
S2-800	1 320	43 192	16 288	35 083	12 495	26 651	4 998	21 647	2 499	19 168	1 666
S2-900	1 190	46 826	18 576	38 035	13 045	28 893	5 218	23 469	2 609	20 781	1 739
S2-1000	1 080	53 126	21 376	43 152	13 757	32 781	5 503	26 626	2 751	23 577	1 834
S2-1100	990	60 386	24 623	49 048	14 600	37 260	5 840	30 265	2 920	26 798	1 947
S2-1200	915	65 028	27 753	52 819	15 185	40 125	6 074	32 591	3 037	28 858	2 025
S2-1300	856	66 869	28 340	54 314	14 170	41 260	5 668	33 514	2 834	29 675	1 889
S2-1400	805	77 709	32 100	63 119	16 050	47 949	6 420	38 947	3 210	–	–
S2-1500	753	83 348	33 830	67 699	16 915	51 428	6 766	41 773	3 383	–	–
S2-1600	713	92 492	35 980	75 127	17 990	57 071	7 196	46 356	3 598	–	–

Radial load (P_r) limit: $P_r \leq C_r / 1.2 \cdot (16\,667 / (n \cdot L_{10}))^{3/10}$.
 Axial load (P_a) limit (group 600 and below): $P_a \leq C_a \cdot 1\,000/n$ or $P_a \leq 0.05 \cdot C_0$ (whichever is smaller).
 Axial load (P_a) limit (group 608 and above): $P_a \leq C_a \cdot 100/n$ or $P_a \leq 0.05 \cdot C_0$ (whichever is smaller).
 The above ratings are based upon a minimum life L₁₀ of 30 000 h, utilization of an EP grease, and a service factor (fd) 1.2.

For legend, see page 10.

1 000 min ⁻¹		1 250 min ⁻¹		1 500 min ⁻¹		2 000 min ⁻¹		2 500 min ⁻¹		3 000 min ⁻¹	
P _r	P _a	P _r	P _a	P _r	P _a	P _r	P _a	P _r	P _a	P _r	P _a
2 953	473	2 762	378	2 615	315	2 399	237	2 244	189	2 124	158
3 995	561	3 736	449	3 537	374	3 245	281	3 035	224	–	–
5 051	666	4 724	533	4 473	444	4 103	333	3 837	266	–	–
6 520	761	6 098	609	5 773	507	5 296	381	–	–	–	–
8 040	857	7 519	686	7 119	571	–	–	–	–	–	–
9 791	951	9 157	761	8 669	634	–	–	–	–	–	–
11 754	1 060	10 993	848	10 408	707	–	–	–	–	–	–
12 952	1 137	12 113	910	–	–	–	–	–	–	–	–
13 734	1 090	12 844	872	–	–	–	–	–	–	–	–
14 517	1 192	13 577	954	–	–	–	–	–	–	–	–
17 583	1 250	16 445	1 000	–	–	–	–	–	–	–	–
19 062	1 305	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–
–	–	–	–	–	–	–	–	–	–	–	–

S2 Series Flange Block

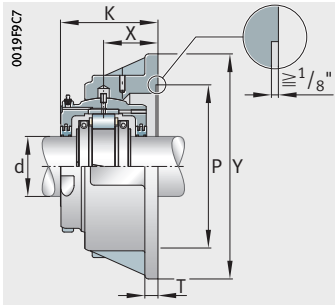


Dimension table - Dimensions in inch

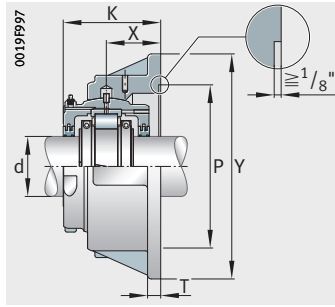
Shaft diameter d		Complete component		Flange housing	Dimension	
		Float bearing	Held bearing		Y	K
inch	mm					
$2\frac{3}{16}$	–	S2BCF-203-FL	S2BCF-203-HD	FH-4	$1\frac{1}{4}$	$5\frac{3}{8}$
$2\frac{1}{4}$	–	S2BCF-204-FL	S2BCF-204-HD	FH-4	$1\frac{1}{4}$	$5\frac{3}{8}$
$2\frac{7}{16}$	–	S2BCF-207-FL	S2BCF-207-HD	FH-4	$1\frac{1}{4}$	$5\frac{3}{8}$
$2\frac{1}{2}$	–	S2BCF-208-FL	S2BCF-208-HD	FH-4	$1\frac{1}{4}$	$5\frac{3}{8}$
–	55	S2BCF-55MM-FL	S2BCF-55MM-HD	FH-4	$1\frac{1}{4}$	$5\frac{3}{8}$
–	60	S2BCF-60MM-FL	S2BCF-60MM-HD	FH-4	$1\frac{1}{4}$	$5\frac{3}{8}$
–	65	S2BCF-65MM-FL	S2BCF-65MM-HD	FH-4	$1\frac{1}{4}$	$5\frac{3}{8}$
$2\frac{11}{16}$	–	S2BCF-211-FL	S2BCF-211-HD	FH-5	13	$5\frac{7}{8}$
$2\frac{3}{4}$	–	S2BCF-212-FL	S2BCF-212-HD	FH-5	13	$5\frac{7}{8}$
$2\frac{15}{16}$	–	S2BCF-215-FL	S2BCF-215-HD	FH-5	13	$5\frac{7}{8}$
3	–	S2BCF-300-FL	S2BCF-300-HD	FH-5	13	$5\frac{7}{8}$
–	70	S2BCF-70MM-FL	S2BCF-70MM-HD	FH-5	13	$5\frac{7}{8}$
–	75	S2BCF-75MM-FL	S2BCF-75MM-HD	FH-5	13	$5\frac{7}{8}$
$3\frac{3}{16}$	–	S2BCF-303-FL	S2BCF-303-HD	FH-6	14	$6\frac{1}{4}$
$3\frac{1}{4}$	–	S2BCF-304-FL	S2BCF-304-HD	FH-6	14	$6\frac{1}{4}$
$3\frac{7}{16}$	–	S2BCF-307-FL	S2BCF-307-HD	FH-6	14	$6\frac{1}{4}$
$3\frac{1}{2}$	–	S2BCF-308-FL	S2BCF-308-HD	FH-6	14	$6\frac{1}{4}$
–	80	S2BCF-80MM-FL	S2BCF-80MM-HD	FH-6	14	$6\frac{1}{4}$
–	85	S2BCF-85MM-FL	S2BCF-85MM-HD	FH-6	14	$6\frac{1}{4}$
–	90	S2BCF-90MM-FL	S2BCF-90MM-HD	FH-6	14	$6\frac{1}{4}$
$3\frac{11}{16}$	–	S2BCF-311-FL	S2BCF-311-HD	FH-7	15	$6\frac{1}{2}$
$3\frac{3}{4}$	–	S2BCF-312-FL	S2BCF-312-HD	FH-7	15	$6\frac{1}{2}$
$3\frac{15}{16}$	–	S2BCF-315-FL	S2BCF-315-HD	FH-7	15	$6\frac{1}{2}$
4	–	S2BCF-400-FL	S2BCF-400-HD	FH-7	15	$6\frac{1}{2}$
–	100	S2BCF-100MM-FL	S2BCF-100MM-HD	FH-7	15	$6\frac{1}{2}$
–	105	S2BCF-105MM-FL	S2BCF-105MM-HD	FH-7	15	$6\frac{1}{2}$

Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.



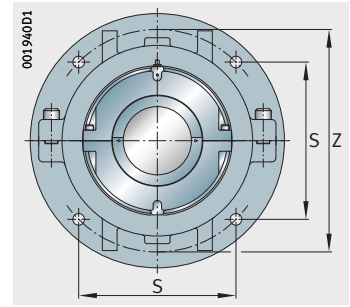
S2BCF..-FL



S2BCF..-HD

X	Z	S	T	P	Bolt		Weight lbs
					Number	Diameter	
27/8	99/16	63/4	5/8	79/16	4	1/2	49.0
27/8	99/16	63/4	5/8	79/16	4	1/2	49.0
27/8	99/16	63/4	5/8	79/16	4	1/2	49.0
27/8	99/16	63/4	5/8	79/16	4	1/2	49.0
27/8	99/16	63/4	5/8	79/16	4	1/2	49.0
27/8	99/16	63/4	5/8	79/16	4	1/2	49.0
27/8	99/16	63/4	5/8	79/16	4	1/2	49.0
31/8	103/4	75/8	3/4	81/2	4	5/8	69.0
31/8	103/4	75/8	3/4	81/2	4	5/8	69.0
31/8	103/4	75/8	3/4	81/2	4	5/8	69.0
31/8	103/4	75/8	3/4	81/2	4	5/8	69.0
31/8	103/4	75/8	3/4	81/2	4	5/8	69.0
31/8	103/4	75/8	3/4	81/2	4	5/8	69.0
33/8	117/8	83/8	3/4	95/8	4	5/8	96.0
33/8	117/8	83/8	3/4	95/8	4	5/8	96.0
33/8	117/8	83/8	3/4	95/8	4	5/8	96.0
33/8	117/8	83/8	3/4	95/8	4	5/8	96.0
33/8	117/8	83/8	3/4	95/8	4	5/8	96.0
33/8	117/8	83/8	3/4	95/8	4	5/8	96.0
33/8	117/8	83/8	3/4	95/8	4	5/8	96.0
35/8	131/8	91/4	7/8	107/8	4	5/8	119.0
35/8	131/8	91/4	7/8	107/8	4	5/8	119.0
35/8	131/8	91/4	7/8	107/8	4	5/8	119.0
35/8	131/8	91/4	7/8	107/8	4	5/8	119.0
35/8	131/8	91/4	7/8	107/8	4	5/8	119.0

S2 Series Flange Block

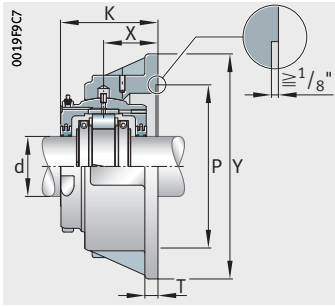


Dimension table (continued) - Dimensions in inch

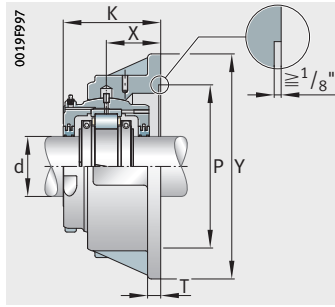
Shaft diameter d		Complete component		Flange housing	Dimension	
		Float bearing	Held bearing		Y	K
inch	mm					
4 ³ / ₁₆	–	S2BCF-403-FL	S2BCF-403-HD	FH-8	17	7 ¹ / ₁₆
4 ¹ / ₄	–	S2BCF-404-FL	S2BCF-404-HD	FH-8	17	7 ¹ / ₁₆
4 ⁷ / ₁₆	–	S2BCF-407-FL	S2BCF-407-HD	FH-8	17	7 ¹ / ₁₆
4 ¹ / ₂	–	S2BCF-408-FL	S2BCF-408-HD	FH-8	17	7 ¹ / ₁₆
–	110	S2BCF-110MM-FL	S2BCF-110MM-HD	FH-8	17	7 ¹ / ₁₆
–	115	S2BCF-115MM-FL	S2BCF-115MM-HD	FH-8	17	7 ¹ / ₁₆
4 ¹¹ / ₁₆	–	S2BCF-411-FL	S2BCF-411-HD	FH-10	18 ¹ / ₂	8 ¹ / ₁₆
4 ¹⁵ / ₁₆	–	S2BCF-415-FL	S2BCF-415-HD	FH-10	18 ¹ / ₂	8 ¹ / ₁₆
5	–	S2BCF-500-FL	S2BCF-500-HD	FH-10	18 ¹ / ₂	8 ¹ / ₁₆
–	120	S2BCF-120MM-FL	S2BCF-120MM-HD	FH-10	18 ¹ / ₂	8 ¹ / ₁₆
–	125	S2BCF-125MM-FL	S2BCF-125MM-HD	FH-10	18 ¹ / ₂	8 ¹ / ₁₆
–	130	S2BCF-130MM-FL	S2BCF-130MM-HD	FH-10	18 ¹ / ₂	8 ¹ / ₁₆
5 ³ / ₁₆	–	S2BCF-503-FL	S2BCF-503-HD	FH-20	20	8 ³ / ₁₆
5 ¹ / ₄	–	S2BCF-507-FL	S2BCF-507-HD	FH-20	20	8 ³ / ₁₆
5 ¹ / ₂	–	S2BCF-508-FL	S2BCF-508-HD	FH-20	20	8 ³ / ₁₆
–	140	S2BCF-140MM-FL	S2BCF-140MM-HD	FH-20	20	8 ³ / ₁₆
5 ¹⁵ / ₁₆	–	S2BCF-515-FL	S2BCF-515-HD	FH-21	21	8 ⁷ / ₈
6	–	S2BCF-600-FL	S2BCF-600-HD	FH-21	21	8 ⁷ / ₈
–	150	S2BCF-150MM-FL	S2BCF-150MM-HD	FH-21	21	8 ⁷ / ₈
–	155	S2BCF-155MM-FL	S2BCF-155MM-HD	FH-21	21	8 ⁷ / ₈
6 ⁷ / ₁₆	–	S2BCF-607-FL	S2BCF-607-HD	FH-22	23	9 ⁷ / ₁₆
6 ¹ / ₂	–	S2BCF-608-FL	S2BCF-608-HD	FH-22	23	9 ⁷ / ₁₆
–	160	S2BCF-160MM-FL	S2BCF-160MM-HD	FH-22	23	9 ⁷ / ₁₆
–	165	S2BCF-170MM-FL	S2BCF-170MM-HD	FH-22	23	9 ⁷ / ₁₆
6 ¹⁵ / ₁₆	–	S2BCF-615-FL	S2BCF-615-HD	FH-23	23 ¹ / ₂	9 ⁷ / ₈
7	–	S2BCF-700-FL	S2BCF-700-HD	FH-23	23 ¹ / ₂	9 ⁷ / ₈
–	180	S2BCF-180MM-FL	S2BCF-180MM-HD	FH-23	23 ¹ / ₂	9 ⁷ / ₈

Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.



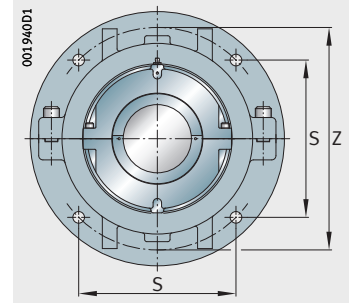
S2BCF..-FL



S2BCF..-HD

X	Z	S	T	P	Bolt		Weight lbs
					Number	Diameter	
3 ⁷ / ₈	14 ³ / ₄	10 ⁷ / ₁₆	7 ⁷ / ₈	12 ³ / ₈	4	7 ⁷ / ₈	190.9
3 ⁷ / ₈	14 ³ / ₄	10 ⁷ / ₁₆	7 ⁷ / ₈	12 ³ / ₈	4	7 ⁷ / ₈	190.9
3 ⁷ / ₈	14 ³ / ₄	10 ⁷ / ₁₆	7 ⁷ / ₈	12 ³ / ₈	4	7 ⁷ / ₈	190.9
3 ⁷ / ₈	14 ³ / ₄	10 ⁷ / ₁₆	7 ⁷ / ₈	12 ³ / ₈	4	7 ⁷ / ₈	190.9
3 ⁷ / ₈	14 ³ / ₄	10 ⁷ / ₁₆	7 ⁷ / ₈	12 ³ / ₈	4	7 ⁷ / ₈	190.9
3 ⁷ / ₈	14 ³ / ₄	10 ⁷ / ₁₆	7 ⁷ / ₈	12 ³ / ₈	4	7 ⁷ / ₈	190.9
4 ¹ / ₂	16 ¹ / ₄	11 ¹ / ₂	1	13 ⁵ / ₈	4	1	241.9
4 ¹ / ₂	16 ¹ / ₄	11 ¹ / ₂	1	13 ⁵ / ₈	4	1	241.9
4 ¹ / ₂	16 ¹ / ₄	11 ¹ / ₂	1	13 ⁵ / ₈	4	1	241.9
4 ¹ / ₂	16 ¹ / ₄	11 ¹ / ₂	1	13 ⁵ / ₈	4	1	241.9
4 ¹ / ₂	16 ¹ / ₄	11 ¹ / ₂	1	13 ⁵ / ₈	4	1	241.9
4 ¹ / ₂	16 ¹ / ₄	11 ¹ / ₂	1	13 ⁵ / ₈	4	1	241.9
4 ³ / ₈	17 ¹ / ₂	12 ³ / ₈	1	14 ⁷ / ₈	4	1	289.9
4 ³ / ₈	17 ¹ / ₂	12 ³ / ₈	1	14 ⁷ / ₈	4	1	289.9
4 ³ / ₈	17 ¹ / ₂	12 ³ / ₈	1	14 ⁷ / ₈	4	1	289.9
4 ³ / ₈	17 ¹ / ₂	12 ³ / ₈	1	14 ⁷ / ₈	4	1	289.9
4 ⁷ / ₈	18 ³ / ₈	13	1	15 ¹ / ₂	4	1	339.9
4 ⁷ / ₈	18 ³ / ₈	13	1	15 ¹ / ₂	4	1	339.9
4 ⁷ / ₈	18 ³ / ₈	13	1	15 ¹ / ₂	4	1	339.9
4 ⁷ / ₈	18 ³ / ₈	13	1	15 ¹ / ₂	4	1	339.9
4 ⁷ / ₈	20	14 ¹ / ₈	1 ¹ / ₈	16 ⁷ / ₈	4	1 ¹ / ₄	411.9
4 ⁷ / ₈	20	14 ¹ / ₈	1 ¹ / ₈	16 ⁷ / ₈	4	1 ¹ / ₄	411.9
4 ⁷ / ₈	20	14 ¹ / ₈	1 ¹ / ₈	16 ⁷ / ₈	4	1 ¹ / ₄	411.9
4 ⁷ / ₈	20	14 ¹ / ₈	1 ¹ / ₈	16 ⁷ / ₈	4	1 ¹ / ₄	411.9
5 ¹ / ₈	20 ⁵ / ₈	14 ⁹ / ₁₆	1 ¹ / ₄	17 ¹ / ₂	4	1 ¹ / ₄	508.9
5 ¹ / ₈	20 ⁵ / ₈	14 ⁹ / ₁₆	1 ¹ / ₄	17 ¹ / ₂	4	1 ¹ / ₄	508.9
5 ¹ / ₈	20 ⁵ / ₈	14 ⁹ / ₁₆	1 ¹ / ₄	17 ¹ / ₂	4	1 ¹ / ₄	508.9

S2 Series Flange Block

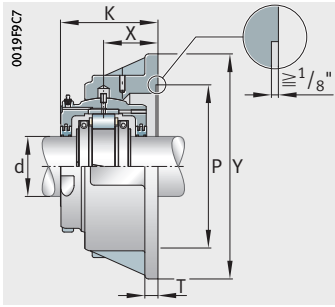


Dimension table (continued) - Dimensions in inch

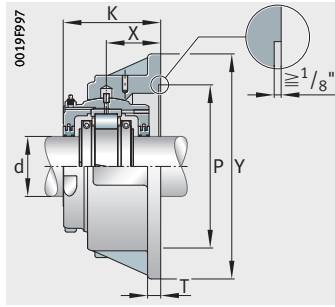
Shaft diameter d		Complete component		Flange housing	Dimension	
		Float bearing	Held bearing		Y	K
inch	mm					
7 ¹ / ₂	–	S2BCF-708-FL	S2BCF-708-HD	FH-24	25 ¹ / ₂	10 ³ / ₈
7 ¹⁵ / ₁₆	–	S2BCF-715-FL	S2BCF-715-HD	FH-24	25 ¹ / ₂	10 ³ / ₈
8	–	S2BCF-800-FL	S2BCF-800-HD	FH-24	25 ¹ / ₂	10 ³ / ₈
–	190	S2BCF-190MM-FL	S2BCF-190MM-HD	FH-24	25 ¹ / ₂	10 ³ / ₈
–	200	S2BCF-200MM-FL	S2BCF-200MM-HD	FH-24	25 ¹ / ₂	10 ³ / ₈
8 ¹ / ₂	–	S2BCF-808-FL	S2BCF-808-HD	FH-25	28	11 ¹ / ₈
8 ¹⁵ / ₁₆	–	S2BCF-815-FL	S2BCF-815-HD	FH-25	28	11 ¹ / ₈
9	–	S2BCF-900-FL	S2BCF-900-HD	FH-25	28	11 ¹ / ₈
–	220	S2BCF-220MM-FL	S2BCF-220MM-HD	FH-25	28	11 ¹ / ₈
–	230	S2BCF-230MM-FL	S2BCF-230MM-HD	FH-25	28	11 ¹ / ₈
9 ¹⁵ / ₁₆	–	S2BCF-908-FL	S2BCF-908-HD	FH-26	29	11 ³ / ₈
10	–	S2BCF-1000-FL	S2BCF-1000-HD	FH-26	29	11 ³ / ₈
–	240	S2BCF-240MM-FL	S2BCF-240MM-HD	FH-26	29	11 ³ / ₈
–	250	S2BCF-260MM-FL	S2BCF-260MM-HD	FH-26	29	11 ³ / ₈
10 ¹ / ₂	–	S2BCF-1008-FL	S2BCF-1008-HD	FH-27	30	12 ¹ / ₈
10 ¹⁵ / ₁₆	–	S2BCF-1012-FL	S2BCF-1012-HD	FH-27	30	12 ¹ / ₈
11	–	S2BCF-1015-FL	S2BCF-1015-HD	FH-27	30	12 ¹ / ₈
–	280	S2BCF-280MM-FL	S2BCF-280MM-HD	FH-27	30	12 ¹ / ₈
–	–	S2BCF-1100-FL	S2BCF-1100-HD	FH-27	30	12 ¹ / ₈
11 ¹ / ₂	–	S2BCF-1108-FL	S2BCF-1108-HD	FH-28	31	12 ³ / ₈
12	–	S2BCF-1200-FL	S2BCF-1200-HD	FH-28	31	12 ³ / ₈
–	300	S2BCF-300MM-FL	S2BCF-300MM-HD	FH-28	31	12 ³ / ₈
12 ¹ / ₂	–	S2BCF-1208-FL	S2BCF-1208-HD	FH-29	36	14
13	–	S2BCF-1302-FL	S2BCF-1302-HD	FH-29	36	14
13	–	S2BCF-1300-FL	S2BCF-1300-HD	FH-29	36	14
–	320	S2BCF-320MM-FL	S2BCF-320MM-HD	FH-29	36	14

Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.



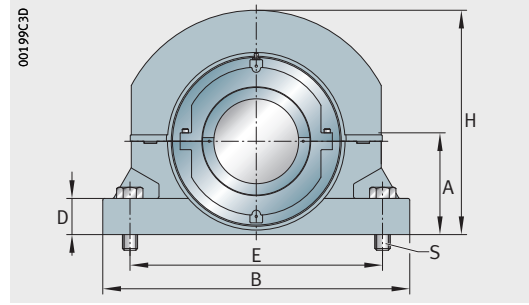
S2BCF..-FL



S2BCF..-HD

X	Z	S	T	P	Bolt		Weight lbs
					Number	Diameter	
5 ³ / ₈	22 ¹ / ₂	15 ¹³ / ₁₆	1 ¹ / ₄	19 ³ / ₈	4	1 ¹ / ₄	703.8
5 ³ / ₈	22 ¹ / ₂	15 ¹³ / ₁₆	1 ¹ / ₄	19 ³ / ₈	4	1 ¹ / ₄	703.8
5 ³ / ₈	22 ¹ / ₂	15 ¹³ / ₁₆	1 ¹ / ₄	19 ³ / ₈	4	1 ¹ / ₄	703.8
5 ³ / ₈	22 ¹ / ₂	15 ¹³ / ₁₆	1 ¹ / ₄	19 ³ / ₈	4	1 ¹ / ₄	703.8
5 ³ / ₈	22 ¹ / ₂	15 ¹³ / ₁₆	1 ¹ / ₄	19 ³ / ₈	4	1 ¹ / ₄	703.8
5 ³ / ₄	24 ³ / ₈	17 ¹ / ₄	1 ³ / ₈	20 ³ / ₄	4	1 ¹ / ₂	770.8
5 ³ / ₄	24 ³ / ₈	17 ¹ / ₄	1 ³ / ₈	20 ³ / ₄	4	1 ¹ / ₂	770.8
5 ³ / ₄	24 ³ / ₈	17 ¹ / ₄	1 ³ / ₈	20 ³ / ₄	4	1 ¹ / ₂	770.8
5 ³ / ₄	24 ³ / ₈	17 ¹ / ₄	1 ³ / ₈	20 ³ / ₄	4	1 ¹ / ₂	770.8
5 ³ / ₄	24 ³ / ₈	17 ¹ / ₄	1 ¹ / ₂	20 ³ / ₄	4	1 ¹ / ₂	770.8
5 ⁷ / ₈	26	18 ³ / ₈	1 ¹ / ₂	22 ³ / ₈	4	1 ¹ / ₂	824.8
5 ⁷ / ₈	26	18 ³ / ₈	1 ¹ / ₂	22 ³ / ₈	4	1 ¹ / ₂	824.8
5 ⁷ / ₈	26	18 ³ / ₈	1 ¹ / ₂	22 ³ / ₈	4	1 ¹ / ₂	824.8
5 ⁷ / ₈	26	18 ³ / ₈	1 ¹ / ₂	22 ³ / ₈	4	1 ¹ / ₂	824.8
6 ¹ / ₄	26 ⁷ / ₈	19	1 ¹ / ₂	23 ³ / ₄	8	1 ¹ / ₄	956.7
6 ¹ / ₄	26 ⁷ / ₈	19	1 ¹ / ₂	23 ³ / ₄	8	1 ¹ / ₄	956.7
6 ¹ / ₄	26 ⁷ / ₈	19	1 ¹ / ₂	23 ³ / ₄	8	1 ¹ / ₄	956.7
6 ¹ / ₄	26 ⁷ / ₈	19	1 ¹ / ₂	23 ³ / ₄	8	1 ¹ / ₄	956.7
6 ¹ / ₄	26 ⁷ / ₈	19	1 ¹ / ₂	23 ³ / ₄	8	1 ¹ / ₄	956.7
6 ³ / ₈	27 ⁷ / ₈	19 ¹¹ / ₁₆	1 ⁵ / ₈	24 ³ / ₄	8	1 ¹ / ₄	1081.7
6 ³ / ₈	27 ⁷ / ₈	19 ¹¹ / ₁₆	1 ⁵ / ₈	24 ³ / ₄	8	1 ¹ / ₄	1081.7
6 ³ / ₈	27 ⁷ / ₈	19 ¹¹ / ₁₆	1 ⁵ / ₈	24 ³ / ₄	8	1 ¹ / ₄	1081.7
7 ¹ / ₂	31 ¹ / ₂	22 ¹ / ₄	1 ³ / ₄	26 ³ / ₄	8	1 ¹ / ₄	1399.6
7 ¹ / ₂	31 ¹ / ₂	22 ¹ / ₄	1 ³ / ₄	26 ³ / ₄	8	1 ¹ / ₄	1399.6
7 ¹ / ₂	31 ¹ / ₂	22 ¹ / ₄	1 ³ / ₄	26 ³ / ₄	8	1 ¹ / ₄	1399.6
7 ¹ / ₂	31 ¹ / ₂	22 ¹ / ₄	1 ³ / ₄	26 ³ / ₄	8	1 ¹ / ₄	1399.6

SAF Compatible Blocks



Dimension table - Dimensions in inch

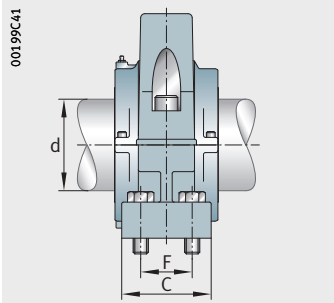
Shaft diameter d		Complete component		Pedestal housing	Dimension		
		Float bearing	Held bearing		A ¹⁾	B	C ²⁾
inch	mm						
2 ^{11/16}	–	S2SAFH-211-FL	S2SAFH-211-HD	SAFC-517	3 ^{3/4}	13	3 ^{1/2}
2 ^{3/4}	–	S2SAFH-212-FL	S2SAFH-212-HD	SAFC-517	3 ^{3/4}	13	3 ^{1/2}
2 ^{15/16}	–	S2SAFH-215-FL	S2SAFH-215-HD	SAFC-517	3 ^{3/4}	13	3 ^{1/2}
3	–	S2SAFH-300-FL	S2SAFH-300-HD	SAFC-517	3 ^{3/4}	13	3 ^{1/2}
–	70	S2SAFH-70MM-FL	S2SAFH-70MM-HD	SAFC-517	3 ^{3/4}	13	3 ^{1/2}
–	75	S2SAFH-75MM-FL	S2SAFH-75MM-HD	SAFC-517	3 ^{3/4}	13	3 ^{1/2}
3 ^{3/16}	–	S2SAFH-303-FL	S2SAFH-303-HD	SAFC-520	4 ^{1/2}	15 ^{1/4}	4 ^{3/8}
3 ^{1/4}	–	S2SAFH-304-FL	S2SAFH-304-HD	SAFC-520	4 ^{1/2}	15 ^{1/4}	4 ^{3/8}
3 ^{7/16}	–	S2SAFH-307-FL	S2SAFH-307-HD	SAFC-520	4 ^{1/2}	15 ^{1/4}	4 ^{3/8}
3 ^{1/2}	–	S2SAFH-308-FL	S2SAFH-308-HD	SAFC-520	4 ^{1/2}	15 ^{1/4}	4 ^{3/8}
–	80	S2SAFH-80MM-FL	S2SAFH-80MM-HD	SAFC-520	4 ^{1/2}	15 ^{1/4}	4 ^{3/8}
–	85	S2SAFH-85MM-FL	S2SAFH-85MM-HD	SAFC-520	4 ^{1/2}	15 ^{1/4}	4 ^{3/8}
–	90	S2SAFH-90MM-FL	S2SAFH-90MM-HD	SAFC-520	4 ^{1/2}	15 ^{1/4}	4 ^{3/8}
3 ^{11/16}	–	S2SAFH-311-FL	S2SAFH-311-HD	SAFC-522	4 ^{15/16}	16 ^{1/2}	4 ^{3/4}
3 ^{3/4}	–	S2SAFH-312-FL	S2SAFH-312-HD	SAFC-522	4 ^{15/16}	16 ^{1/2}	4 ^{3/4}
3 ^{15/16}	–	S2SAFH-315-FL	S2SAFH-315-HD	SAFC-522	4 ^{15/16}	16 ^{1/2}	4 ^{3/4}
4	–	S2SAFH-400-FL	S2SAFH-400-HD	SAFC-522	4 ^{15/16}	16 ^{1/2}	4 ^{3/4}
–	100	S2SAFH-100MM-FL	S2SAFH-100MM-HD	SAFC-522	4 ^{15/16}	16 ^{1/2}	4 ^{3/4}
–	105	S2SAFH-105MM-FL	S2SAFH-105MM-HD	SAFC-522	4 ^{15/16}	16 ^{1/2}	4 ^{3/4}
4 ^{3/16}	–	S2SAFH-403-FL	S2SAFH-403-HD	SAFC-526	6	18 ^{3/8}	5 ^{1/8}
4 ^{1/4}	–	S2SAFH-404-FL	S2SAFH-404-HD	SAFC-526	6	18 ^{3/8}	5 ^{1/8}
4 ^{7/16}	–	S2SAFH-407-FL	S2SAFH-407-HD	SAFC-526	6	18 ^{3/8}	5 ^{1/8}
4 ^{1/2}	–	S2SAFH-408-FL	S2SAFH-408-HD	SAFC-526	6	18 ^{3/8}	5 ^{1/8}
–	110	S2SAFH-110MM-FL	S2SAFH-110MM-HD	SAFC-526	6	18 ^{3/8}	5 ^{1/8}
–	115	S2SAFH-115MM-FL	S2SAFH-115MM-HD	SAFC-526	6	18 ^{3/8}	5 ^{1/8}

Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.

1) Base to shaft center height can be altered upon request.

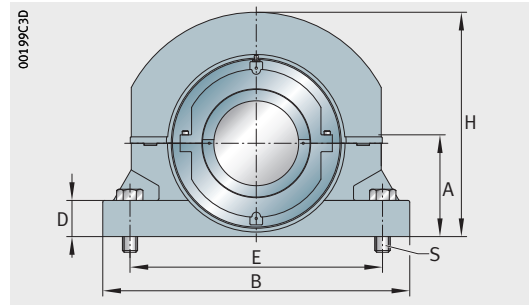
2) Housing width only.



Housing with
4 mounting bolt design

D	E		F	H	Bolt		Weight
	min.	max.			Number	Diameter	lbs
1 ¹ / ₁₆	9 ⁷ / ₈	11	2 ¹ / ₈	9 ³ / ₈	4	5 ⁵ / ₈	56.0
1 ¹ / ₁₆	9 ⁷ / ₈	11	2 ¹ / ₈	9 ³ / ₈	4	5 ⁵ / ₈	56.0
1 ¹ / ₁₆	9 ⁷ / ₈	11	2 ¹ / ₈	9 ³ / ₈	4	5 ⁵ / ₈	56.0
1 ¹ / ₁₆	9 ⁷ / ₈	11	2 ¹ / ₈	9 ³ / ₈	4	5 ⁵ / ₈	56.0
1 ¹ / ₁₆	9 ⁷ / ₈	11	2 ¹ / ₈	9 ³ / ₈	4	5 ⁵ / ₈	56.0
1 ¹ / ₁₆	9 ⁷ / ₈	11	2 ¹ / ₈	9 ³ / ₈	4	5 ⁵ / ₈	56.0
1 ³ / ₄	11 ⁵ / ₈	13 ¹ / ₈	2 ³ / ₈	10 ⁵ / ₁₆	4	3 ³ / ₄	75.0
1 ³ / ₄	11 ⁵ / ₈	13 ¹ / ₈	2 ³ / ₈	10 ⁵ / ₁₆	4	3 ³ / ₄	75.0
1 ³ / ₄	11 ⁵ / ₈	13 ¹ / ₈	2 ³ / ₈	10 ⁵ / ₁₆	4	3 ³ / ₄	75.0
1 ³ / ₄	11 ⁵ / ₈	13 ¹ / ₈	2 ³ / ₈	10 ⁵ / ₁₆	4	3 ³ / ₄	75.0
1 ³ / ₄	11 ⁵ / ₈	13 ¹ / ₈	2 ³ / ₈	10 ⁵ / ₁₆	4	3 ³ / ₄	75.0
1 ³ / ₄	11 ⁵ / ₈	13 ¹ / ₈	2 ³ / ₈	10 ⁵ / ₁₆	4	3 ³ / ₄	75.0
2	12 ⁵ / ₈	14 ¹ / ₂	2 ³ / ₄	11 ¹¹ / ₁₆	4	3 ³ / ₄	120.0
2	12 ⁵ / ₈	14 ¹ / ₂	2 ³ / ₄	11 ¹¹ / ₁₆	4	3 ³ / ₄	120.0
2	12 ⁵ / ₈	14 ¹ / ₂	2 ³ / ₄	11 ¹¹ / ₁₆	4	3 ³ / ₄	120.0
2	12 ⁵ / ₈	14 ¹ / ₂	2 ³ / ₄	11 ¹¹ / ₁₆	4	3 ³ / ₄	120.0
2	12 ⁵ / ₈	14 ¹ / ₂	2 ³ / ₄	11 ¹¹ / ₁₆	4	3 ³ / ₄	120.0
2	12 ⁵ / ₈	14 ¹ / ₂	2 ³ / ₄	11 ¹¹ / ₁₆	4	3 ³ / ₄	120.0
2 ³ / ₈	14 ⁵ / ₈	16	3 ¹ / ₄	13 ⁵ / ₈	4	7 ⁷ / ₈	179.9
2 ³ / ₈	14 ⁵ / ₈	16	3 ¹ / ₄	13 ⁵ / ₈	4	7 ⁷ / ₈	179.9
2 ³ / ₈	14 ⁵ / ₈	16	3 ¹ / ₄	13 ⁵ / ₈	4	7 ⁷ / ₈	179.9
2 ³ / ₈	14 ⁵ / ₈	16	3 ¹ / ₄	13 ⁵ / ₈	4	7 ⁷ / ₈	179.9
2 ³ / ₈	14 ⁵ / ₈	16	3 ¹ / ₄	13 ⁵ / ₈	4	7 ⁷ / ₈	179.9
2 ³ / ₈	14 ⁵ / ₈	16	3 ¹ / ₄	13 ⁵ / ₈	4	7 ⁷ / ₈	179.9

SAF Compatible Blocks



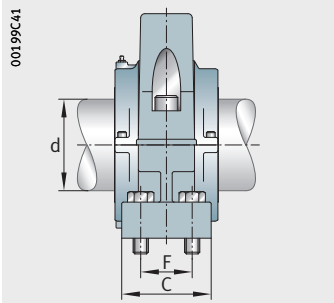
Dimension table (continued) - Dimensions in inch

Shaft diameter d		Complete component		Pedestal housing	Dimension		
		Float bearing	Held bearing		A ¹⁾	B	C ²⁾
inch	mm						
4 ¹¹ / ₁₆	–	S2SAFH-411-FL	S2SAFH-411-HD	SAFC-528	6	20 ¹ / ₈	5 ⁷ / ₈
4 ¹⁵ / ₁₆	–	S2SAFH-415-FL	S2SAFH-415-HD	SAFC-528	6	20 ¹ / ₈	5 ⁷ / ₈
5	–	S2SAFH-500-FL	S2SAFH-500-HD	SAFC-528	6	20 ¹ / ₈	5 ⁷ / ₈
–	120	S2SAFH-120MM-FL	S2SAFH-120MM-HD	SAFC-528	6	20 ¹ / ₈	5 ⁷ / ₈
–	125	S2SAFH-125MM-FL	S2SAFH-125MM-HD	SAFC-528	6	20 ¹ / ₈	5 ⁷ / ₈
–	130	S2SAFH-130MM-FL	S2SAFH-130MM-HD	SAFC-528	6	20 ¹ / ₈	5 ⁷ / ₈
5 ³ / ₁₆	–	S2SAFH-503-FL	S2SAFH-503-HD	SAFC-532	6 ¹¹ / ₁₆	22	6 ¹ / ₄
5 ⁷ / ₁₆	–	S2SAFH-507-FL	S2SAFH-507-HD	SAFC-532	6 ¹¹ / ₁₆	22	6 ¹ / ₄
5 ¹ / ₂	–	S2SAFH-508-FL	S2SAFH-508-HD	SAFC-532	6 ¹¹ / ₁₆	22	6 ¹ / ₄
–	140	S2SAFH-140MM-FL	S2SAFH-140MM-HD	SAFC-532	6 ¹¹ / ₁₆	22	6 ¹ / ₄
5 ¹⁵ / ₁₆	–	S2SAFH-515-FL	S2SAFH-515-HD	SAFC-534	7 ¹ / ₁₆	24 ³ / ₄	6 ³ / ₄
6	–	S2SAFH-600-FL	S2SAFH-600-HD	SAFC-534	7 ¹ / ₁₆	24 ³ / ₄	6 ³ / ₄
–	150	S2SAFH-150MM-FL	S2SAFH-150MM-HD	SAFC-534	7 ¹ / ₁₆	24 ³ / ₄	6 ³ / ₄
–	155	S2SAFH-155MM-FL	S2SAFH-155MM-HD	SAFC-534	7 ¹ / ₁₆	24 ³ / ₄	6 ³ / ₄

Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.

- 1) Base to shaft center height can be altered upon request.
- 2) Housing width only.

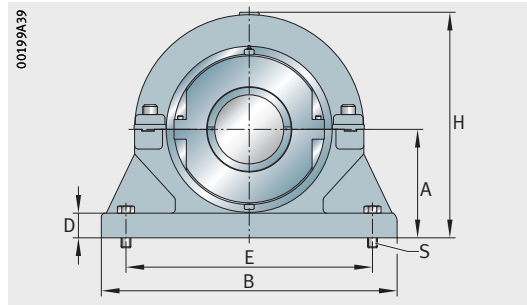


Housing with
4 mounting bolt design

D	E		F	H	Bolt		Weight lbs
	min.	max.			Number	Diameter	
2 ³ / ₈	16	17 ¹ / ₈	3 ³ / ₈	14 ⁵ / ₈	4	1	224.9
2 ³ / ₈	16	17 ¹ / ₈	3 ³ / ₈	14 ⁵ / ₈	4	1	224.9
2 ³ / ₈	16	17 ¹ / ₈	3 ³ / ₈	14 ⁵ / ₈	4	1	224.9
2 ³ / ₈	16	17 ¹ / ₈	3 ³ / ₈	14 ⁵ / ₈	4	1	224.9
2 ³ / ₈	16	17 ¹ / ₈	3 ³ / ₈	14 ⁵ / ₈	4	1	224.9
2 ³ / ₈	16	17 ¹ / ₈	3 ³ / ₈	14 ⁵ / ₈	4	1	224.9
2 ¹¹ / ₁₆	17 ³ / ₈	19 ¹ / ₄	3 ³ / ₄	16 ¹¹ / ₁₆	4	1	289.9
2 ¹¹ / ₁₆	17 ³ / ₈	19 ¹ / ₄	3 ³ / ₄	16 ¹¹ / ₁₆	4	1	289.9
2 ¹¹ / ₁₆	17 ³ / ₈	19 ¹ / ₄	3 ³ / ₄	16 ¹¹ / ₁₆	4	1	289.9
2 ¹¹ / ₁₆	17 ³ / ₈	19 ¹ / ₄	3 ³ / ₄	16 ¹¹ / ₁₆	4	1	289.9
2 ³ / ₁₆	19 ³ / ₈	21 ⁵ / ₈	4 ¹ / ₄	16 ¹³ / ₁₆	4	1	334.9
2 ³ / ₁₆	19 ³ / ₈	21 ⁵ / ₈	4 ¹ / ₄	16 ¹³ / ₁₆	4	1	334.9
2 ³ / ₁₆	19 ³ / ₈	21 ⁵ / ₈	4 ¹ / ₄	16 ¹³ / ₁₆	4	1	334.9
2 ³ / ₁₆	19 ³ / ₈	21 ⁵ / ₈	4 ¹ / ₄	16 ¹³ / ₁₆	4	1	334.9

Split Cylindrical Roller Bearing

S3 series bore



Dimension table - Dimensions in inch

Mounted unit

Shaft diameter d		Complete component		Pedestal housing	Dimension								
					Float bearing	Held bearing	B	H	A ¹⁾	C ²⁾	D	E	
		min.	max.										
inch	mm												
5 ^{15/16}	–	S3BCH-515-FL	S3BCH-515-HD	PH-310	26 ^{1/4}	21	10	8	2 ^{1/4}	21 ^{1/4}	22 ^{3/4}	4 ^{3/4}	
6	–	S3BCH-600-FL	S3BCH-600-HD	PH-310	26 ^{1/4}	21	10	8	2 ^{1/4}	21 ^{1/4}	22 ^{3/4}	4 ^{3/4}	
–	150	S3BCH-150MM-FL	S3BCH-150MM-HD	PH-310	26 ^{1/4}	21	10	8	2 ^{1/4}	21 ^{1/4}	22 ^{3/4}	4 ^{3/4}	
–	155	S3BCH-155MM-FL	S3BCH-155MM-HD	PH-310	26 ^{1/4}	21	10	8	2 ^{1/4}	21 ^{1/4}	22 ^{3/4}	4 ^{3/4}	
6 ^{7/16}	–	S3BCH-607-FL	S3BCH-607-HD	PH-311	29	22 ^{1/2}	10 ^{1/2}	9	2 ^{3/8}	24	25 ^{1/2}	5 ^{1/2}	
6 ^{1/2}	–	S3BCH-608-FL	S3BCH-608-HD	PH-311	29	22 ^{1/2}	10 ^{1/2}	9	2 ^{3/8}	24	25 ^{1/2}	5 ^{1/2}	
–	160	S3BCH-160MM-FL	S3BCH-160MM-HD	PH-311	29	22 ^{1/2}	10 ^{1/2}	9	2 ^{3/8}	24	25 ^{1/2}	5 ^{1/2}	
–	170	S3BCH-170MM-FL	S3BCH-170MM-HD	PH-311	29	22 ^{1/2}	10 ^{1/2}	9	2 ^{3/8}	24	25 ^{1/2}	5 ^{1/2}	
6 ^{15/16}	–	S3BCH-615-FL	S3BCH-615-HD	PH-312	30	22 ^{7/8}	11	10	2 ^{1/2}	24 ^{1/4}	25 ^{3/4}	6	
7	–	S3BCH-700-FL	S3BCH-700-HD	PH-312	30	22 ^{7/8}	11	10	2 ^{1/2}	24 ^{1/4}	25 ^{3/4}	6	
–	180	S3BCH-180MM-FL	S3BCH-180MM-HD	PH-312	30	22 ^{7/8}	11	10	2 ^{1/2}	24 ^{1/4}	25 ^{3/4}	6	
7 ^{15/16}	–	S3BCH-715-FL	S3BCH-715-HD	PH-313	33	25 ^{3/4}	12 ^{1/4}	10 ^{1/2}	2 ^{5/8}	24 ^{1/4}	25 ^{3/4}	6 ^{3/4}	
8	–	S3BCH-800-FL	S3BCH-800-HD	PH-313	33	25 ^{3/4}	12 ^{1/4}	10 ^{1/2}	2 ^{5/8}	24 ^{1/4}	25 ^{3/4}	6 ^{3/4}	
–	190	S3BCH-190MM-FL	S3BCH-190MM-HD	PH-313	33	25 ^{3/4}	12 ^{1/4}	10 ^{1/2}	2 ^{5/8}	24 ^{1/4}	25 ^{3/4}	6 ^{3/4}	
–	200	S3BCH-200MM-FL	S3BCH-200MM-HD	PH-313	33	25 ^{3/4}	12 ^{1/4}	10 ^{1/2}	2 ^{5/8}	24 ^{1/4}	25 ^{3/4}	6 ^{3/4}	
8 ^{1/2}	–	S3BCH-808-FL	S3BCH-808-HD	PH-314	37 ^{1/2}	28 ^{3/4}	13 ^{3/4}	11	3	28 ^{1/4}	29 ^{3/4}	7	
9	–	S3BCH-900-FL	S3BCH-900-HD	PH-314	37 ^{1/2}	28 ^{3/4}	13 ^{3/4}	11	3	28 ^{1/4}	29 ^{3/4}	7	
–	220	S3BCH-220MM-FL	S3BCH-220MM-HD	PH-314	37 ^{1/2}	28 ^{3/4}	13 ^{3/4}	11	3	28 ^{1/4}	29 ^{3/4}	7	
–	230	S3BCH-230MM-FL	S3BCH-230MM-HD	PH-314	37 ^{1/2}	28 ^{3/4}	13 ^{3/4}	11	3	28 ^{1/4}	29 ^{3/4}	7	
9 ^{1/2}	–	S3BCH-908-FL	S3BCH-908-HD	PH-315	36	31	15 ^{1/2}	16	3	25 ^{5/8}	27 ^{1/8}	12	
10	–	S3BCH-1000-FL	S3BCH-1000-HD	PH-315	36	31	15 ^{1/2}	16	3	25 ^{5/8}	27 ^{1/8}	12	
–	240	S3BCH-240MM-FL	S3BCH-240MM-HD	PH-315	36	31	15 ^{1/2}	16	3	25 ^{5/8}	27 ^{1/8}	12	
–	260	S3BCH-260MM-FL	S3BCH-260MM-HD	PH-315	36	31	15 ^{1/2}	16	3	25 ^{5/8}	27 ^{1/8}	12	

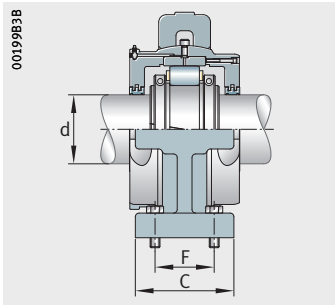
Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.

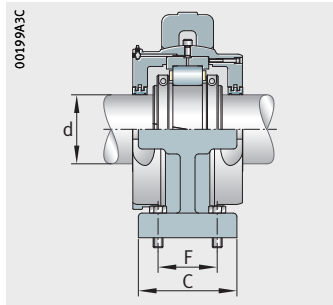
Cartridge assembly and roller bearing, see page 102.

1) Base to shaft center height can be altered upon request.

2) Housing width only.



S3BCH..-FL

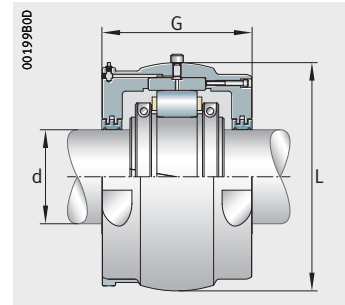


S3BCH..-HD

Bolt		Weight	Cartridge assembly			Bearing			Group
			Float bearing	Held bearing	Cartridge	Float bearing	Held bearing		
Number	Diameter	lbs							
4	1 ¹ / ₄	697.8	S3BC-515-FL	S3BC-515-HD	S3C-600	S3B-515-FL	S3B-515-HD	600 Grp	
4	1 ¹ / ₄	697.8	S3BC-600-FL	S3BC-600-HD	S3C-600	S3B-600-FL	S3B-600-HD	600 Grp	
4	1 ¹ / ₄	697.8	S3BC-150MM-FL	S3BC-150MM-HD	S3C-600	S3B-150MM-FL	S3B-150MM-HD	600 Grp	
4	1 ¹ / ₄	697.8	S3BC-155MM-FL	S3BC-155MM-HD	S3C-600	S3B-155MM-FL	S3B-155MM-HD	600 Grp	
4	1 ¹ / ₄	787.8	S3BC-607-FL	S3BC-607-HD	S3C-608	S3B-607-FL	S3B-607-HD	608 Grp	
4	1 ¹ / ₄	787.8	S3BC-608-FL	S3BC-608-HD	S3C-608	S3B-608-FL	S3B-608-HD	608 Grp	
4	1 ¹ / ₄	787.8	S3BC-160MM-FL	S3BC-160MM-HD	S3C-608	S3B-160MM-FL	S3B-160MM-HD	608 Grp	
4	1 ¹ / ₄	787.8	S3BC-170MM-FL	S3BC-170MM-HD	S3C-608	S3B-170MM-FL	S3B-170MM-HD	608 Grp	
4	1 ¹ / ₄	889.7	S3BC-615-FL	S3BC-615-HD	S3C-700	S3B-615-FL	S3B-615-HD	700 Grp	
4	1 ¹ / ₄	889.1	S3BC-700-FL	S3BC-700-HD	S3C-700	S3B-700-FL	S3B-700-HD	700 Grp	
4	1 ¹ / ₄	889.7	S3BC-180MM-FL	S3BC-180MM-HD	S3C-700	S3B-180MM-FL	S3B-180MM-HD	700 Grp	
4	1 ¹ / ₂	1 188.7	S3BC-715-FL	S3BC-715-HD	S3C-800	S3B-715-FL	S3B-715-HD	800 Grp	
4	1 ¹ / ₂	1 188.7	S3BC-800-FL	S3BC-800-HD	S3C-800	S3B-800-FL	S3B-800-HD	800 Grp	
4	1 ¹ / ₂	1 188.7	S3BC-190MM-FL	S3BC-190MM-HD	S3C-800	S3B-190MM-FL	S3B-190MM-HD	800 Grp	
4	1 ¹ / ₂	1 188.7	S3BC-200MM-FL	S3BC-200MM-HD	S3C-800	S3B-200MM-FL	S3B-200MM-HD	800 Grp	
4	1 ³ / ₄	1 658.5	S3BC-808-FL	S3BC-808-HD	S3C-900	S3B-808-FL	S3B-808-HD	900 Grp	
4	1 ³ / ₄	1 658.5	S3BC-900-FL	S3BC-900-HD	S3C-900	S3B-900-FL	S3B-900-HD	900 Grp	
4	1 ³ / ₄	1 658.5	S3BC-220MM-FL	S3BC-220MM-HD	S3C-900	S3B-220MM-FL	S3B-220MM-HD	900 Grp	
4	1 ³ / ₄	1 658.5	S3BC-230MM-FL	S3BC-230MM-HD	S3C-900	S3B-230MM-FL	S3B-230MM-HD	900 Grp	
4	1 ³ / ₄	1 889.5	S3BC-908-FL	S3BC-908-HD	S3C-1000	S3B-908-FL	S3B-908-HD	1000 Grp	
4	1 ³ / ₄	1 889.5	S3BC-1000-FL	S3BC-1000-HD	S3C-1000	S3B-1000-FL	S3B-1000-HD	1000 Grp	
4	1 ³ / ₄	1 889.5	S3BC-240MM-FL	S3BC-240MM-HD	S3C-1000	S3B-240MM-FL	S3B-240MM-HD	1000 Grp	
4	1 ³ / ₄	1 889.5	S3BC-260MM-FL	S3BC-260MM-HD	S3C-1000	S3B-260MM-FL	S3B-260MM-HD	1000 Grp	

Split Cylindrical Roller Bearing

S3 series bore



S3BCF..-FL

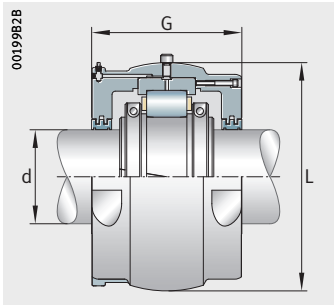
Dimension table (continued) - Dimensions in inch

Shaft diameter		Cartridge assembly						
		Float bearing	Held bearing	Dimension		Grease capacity	Cartridge	
inch	mm			G	L ¹⁾		lbs	
								lbs
5 ¹⁵ / ₁₆	–	S3BC-515-FL	S3BC-515-HD	10	15 ¹ / ₂	6.20	S3C-600	304.9
6	–	S3BC-600-FL	S3BC-600-HD	10	15 ¹ / ₂	6.20	S3C-600	304.9
–	150	S3BC-150MM-FL	S3BC-150MM-HD	10	15 ¹ / ₂	6.20	S3C-600	304.9
–	155	S3BC-155MM-FL	S3BC-155MM-HD	10	15 ¹ / ₂	6.20	S3C-600	304.9
6 ⁷ / ₁₆	–	S3BC-607-FL	S3BC-607-HD	10 ⁹ / ₁₆	16 ⁵ / ₈	8.40	S3C-608	367.9
6 ¹ / ₂	–	S3BC-608-FL	S3BC-608-HD	10 ⁹ / ₁₆	16 ⁵ / ₈	8.40	S3C-608	367.9
–	160	S3BC-160MM-FL	S3BC-160MM-HD	10 ⁹ / ₁₆	16 ⁵ / ₈	8.40	S3C-608	367.9
–	170	S3BC-170MM-FL	S3BC-170MM-HD	10 ⁹ / ₁₆	16 ⁵ / ₈	8.40	S3C-608	367.9
6 ¹⁵ / ₁₆	–	S3BC-615-FL	S3BC-615-HD	11 ³ / ₁₆	17	9.70	S3C-700	397.9
7	–	S3BC-700-FL	S3BC-700-HD	11 ³ / ₁₆	17	9.70	S3C-700	397.9
–	180	S3BC-180MM-FL	S3BC-180MM-HD	11 ³ / ₁₆	17	9.70	S3C-700	397.9
7 ¹⁵ / ₁₆	–	S3BC-715-FL	S3BC-715-HD	11 ¹³ / ₁₆	19 ¹ / ₄	12.30	S3C-800	513.9
8	–	S3BC-800-FL	S3BC-800-HD	11 ¹³ / ₁₆	19 ¹ / ₄	12.30	S3C-800	513.9
–	190	S3BC-190MM-FL	S3BC-190MM-HD	11 ¹³ / ₁₆	19 ¹ / ₄	12.30	S3C-800	513.9
–	200	S3BC-200MM-FL	S3BC-200MM-HD	11 ¹³ / ₁₆	19 ¹ / ₄	12.30	S3C-800	513.9
8 ¹ / ₂	–	S3BC-808-FL	S3BC-808-HD	13 ³ / ₁₆	21 ¹ / ₂	15.20	S3C-900	718.8
9	–	S3BC-900-FL	S3BC-900-HD	13 ³ / ₁₆	21 ¹ / ₂	15.20	S3C-900	718.8
–	220	S3BC-220MM-FL	S3BC-220MM-HD	13 ³ / ₁₆	21 ¹ / ₂	15.20	S3C-900	718.8
–	230	S3BC-230MM-FL	S3BC-230MM-HD	13 ³ / ₁₆	21 ¹ / ₂	15.20	S3C-900	718.8
9 ¹ / ₂	–	S3BC-908-FL	S3BC-908-HD	13 ³ / ₁₆	22	18.39	S3C-1000	746.8
10	–	S3BC-1000-FL	S3BC-1000-HD	13 ³ / ₁₆	22	18.39	S3C-1000	746.8
–	240	S3BC-240MM-FL	S3BC-240MM-HD	13 ³ / ₁₆	22	18.39	S3C-1000	746.8
–	260	S3BC-260MM-FL	S3BC-260MM-HD	13 ³ / ₁₆	22	18.39	S3C-1000	746.8

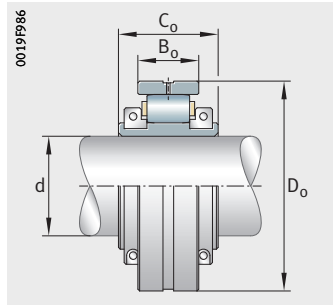
Mounted unit, see page 100.

1) Length through bore.

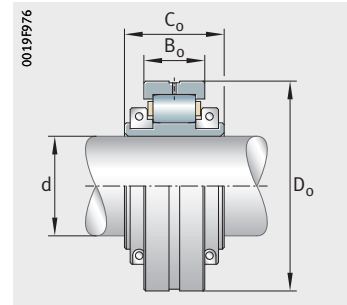
2) Based on axial capacity at 1000 min⁻¹.



S3BCH..-HD



S3BCF..-FL



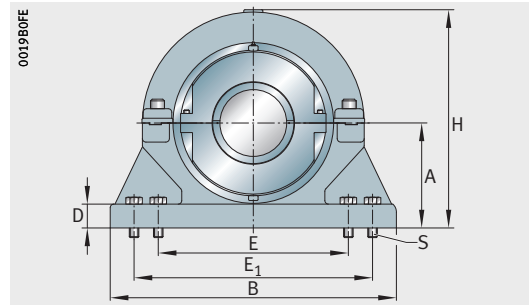
S3BCH..-HD

Bearing

Float bearing	Held bearing	Bearing rating				Dimension			Weight lbs	Group
		dyn. C _r lbs	stat. C ₀ lbs	axial C _a ²⁾ lbs	max. Speed min ⁻¹	D ₀	C ₀	B ₀		
S3B-515-FL	S3B-515-HD	237 427	340 048	15 899	1 407	13	6.299	3.813	131.0	600 Grp
S3B-600-FL	S3B-600-HD	237 427	340 048	15 899	1 407	13	6.299	3.813	131.0	600 Grp
S3B-150MM-FL	S3B-150MM-HD	237 427	340 048	15 899	1 407	13	6.299	3.813	131.0	600 Grp
S3B-155MM-FL	S3B-155MM-HD	237 427	340 048	15 899	1 407	13	6.299	3.813	131.0	600 Grp
S3B-607-FL	S3B-607-HD	237 189	360 515	15 462	1 305	14	6.72	4.063	169.0	608 Grp
S3B-608-FL	S3B-608-HD	237 189	360 515	15 462	1 305	14	6.72	4.063	169.0	608 Grp
S3B-160MM-FL	S3B-160MM-HD	237 189	360 515	15 462	1 305	14	6.72	4.063	169.0	608 Grp
S3B-170MM-FL	S3B-170MM-HD	237 189	360 515	15 462	1 305	14	6.72	4.063	169.0	608 Grp
S3B-615-FL	S3B-615-HD	250 948	385 223	15 614	1 227	14.75	7.008	4.28	183.9	700 Grp
S3B-700-FL	S3B-700-HD	250 948	385 223	15 614	1 227	14.75	7.008	4.28	183.9	700 Grp
S3B-180MM-FL	S3B-180MM-HD	250 948	385 223	15 614	1 227	14.75	7.008	4.28	183.9	700 Grp
S3B-715-FL	S3B-715-HD	296 243	461 718	16 948	1 105	16.5	7.52	4.656	243.9	800 Grp
S3B-800-FL	S3B-800-HD	296 243	461 718	16 948	1 105	16.5	7.52	4.656	243.9	800 Grp
S3B-190MM-FL	S3B-190MM-HD	296 243	461 718	16 948	1 105	16.5	7.52	4.656	243.9	800 Grp
S3B-200MM-FL	S3B-200MM-HD	296 243	461 718	16 948	1 105	16.5	7.52	4.656	243.9	800 Grp
S3B-808-FL	S3B-808-HD	367 400	586 233	18 652	972	18.5	8.346	5.185	341.9	900 Grp
S3B-900-FL	S3B-900-HD	367 400	586 233	18 652	972	18.5	8.346	5.185	341.9	900 Grp
S3B-220MM-FL	S3B-220MM-HD	367 400	586 233	18 652	972	18.5	8.346	5.185	341.9	900 Grp
S3B-230MM-FL	S3B-230MM-HD	367 400	586 233	18 652	972	18.5	8.346	5.185	341.9	900 Grp
S3B-908-FL	S3B-908-HD	366 755	592 566	17 823	920	19	8.307	4.906	346.9	1000 Grp
S3B-1000-FL	S3B-1000-HD	366 755	592 566	17 823	920	19	8.307	4.906	346.9	1000 Grp
S3B-240MM-FL	S3B-240MM-HD	366 755	592 566	17 823	920	19	8.307	4.906	346.9	1000 Grp
S3B-260MM-FL	S3B-260MM-HD	366 755	592 566	17 823	920	19	8.307	4.906	346.9	1000 Grp

Split Cylindrical Roller Bearing

S3 series bore



Dimension table (continued) · Dimensions in inch

Mounted unit

Shaft diameter d		Complete component		Pedestal housing	Dimension									
		Float bearing	Held bearing		B	H	A ¹⁾	C ²⁾	D	E		E ₁		
inch	mm									min.	max.	min.	max.	
11	–	S3BCH-1100-FL	S3BCH-1100-HD	PH-316	37	30 ³ / ₄	14 ¹ / ₂	11	2 ³ / ₄	19	20 ¹ / ₂	28 ¹ / ₂	30	
–	280	S3BCH-280MM-FL	S3BCH-280MM-HD	PH-316	37	30 ³ / ₄	14 ¹ / ₂	11	2 ³ / ₄	19	20 ¹ / ₂	28 ¹ / ₂	30	
11 ¹ / ₂	–	S3BCH-1108-FL	S3BCH-1108-HD	PH-317	43	36	18	16 ¹ / ₂	3	25 ³ / ₄	27 ¹ / ₄	33 ³ / ₄	35 ¹ / ₄	
12	–	S3BCH-1200-FL	S3BCH-1200-HD	PH-317	43	36	18	16 ¹ / ₂	3	25 ³ / ₄	27 ¹ / ₄	33 ³ / ₄	35 ¹ / ₄	
–	300	S3BCH-300MM-FL	S3BCH-300MM-HD	PH-317	43	36	18	16 ¹ / ₂	3	25 ³ / ₄	27 ¹ / ₄	33 ³ / ₄	35 ¹ / ₄	
13	–	S3BCH-1300-FL	S3BCH-1300-HD	PH-318	47	40 ³ / ₄	20 ¹³ / ₃₂	14	3	29 ³ / ₁₆	30 ³ / ₄	37 ¹¹ / ₁₆	39 ¹ / ₄	
–	320	S3BCH-320MM-FL	S3BCH-320MM-HD	PH-318	47	40 ³ / ₄	20 ¹³ / ₃₂	14	3	29 ³ / ₁₆	30 ³ / ₄	37 ¹¹ / ₁₆	39 ¹ / ₄	
14	–	S3BCH-1400-FL	S3BCH-1400-HD	PH-319	48	39 ¹ / ₂	18 ¹ / ₂	12 ¹ / ₂	3 ¹ / ₄	24 ⁷ / ₈	27	35 ³ / ₈	37 ¹ / ₂	
–	340	S3BCH-340MM-FL	S3BCH-340MM-HD	PH-319	48	39 ¹ / ₂	18 ¹ / ₂	12 ¹ / ₂	3 ¹ / ₄	24 ⁷ / ₈	27	35 ³ / ₈	37 ¹ / ₂	
–	360	S3BCH-360MM-FL	S3BCH-360MM-HD	PH-319	48	39 ¹ / ₂	18 ¹ / ₂	12 ¹ / ₂	3 ¹ / ₄	24 ⁷ / ₈	27	35 ³ / ₈	37 ¹ / ₂	
15	–	S3BCH-1500-FL	S3BCH-1500-HD	PH-320	50	44	22	15 ¹ / ₂	3 ⁹ / ₁₆	30 ¹¹ / ₁₆	32 ³ / ₄	39 ¹¹ / ₁₆	41 ³ / ₄	
–	380	S3BCH-380MM-FL	S3BCH-380MM-HD	PH-320	50	44	22	15 ¹ / ₂	3 ⁹ / ₁₆	30 ¹¹ / ₁₆	32 ³ / ₄	39 ¹¹ / ₁₆	41 ³ / ₄	

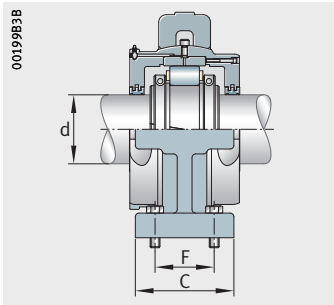
Special application bearings are available upon request.

Normal operating temperature for standard bearings is +32 °F to +212 °F.

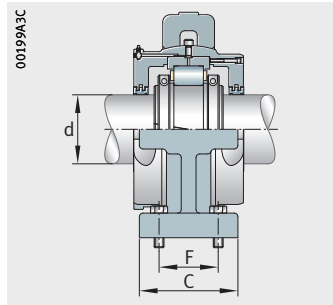
Cartridge assembly and roller bearing, see page 106.

1) Base to shaft center height can be altered upon request.

2) Housing width only.



S3BCH..-FL

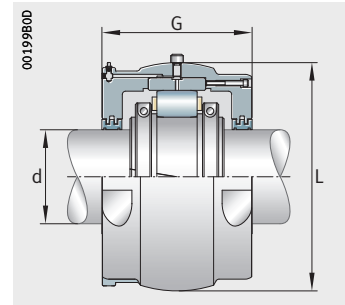


S3BCH..-HD

			Cartridge assembly			Bearing			
F	Bolt		Weight lbs	Float bearing	Held bearing	Cartridge	Float bearing	Held bearing	Group
	Number	Diameter							
7	8	1 ^{1/2}	1 385.6	S3BC-1100-FL	S3BC-1100-HD	S3C-1100	S3B-1100-FL	S3B-1100-HD	1100 Grp
7	8	1 ^{1/2}	1 385.6	S3BC-280MM-FL	S3BC-280MM-HD	S3C-1100	S3B-280MM-FL	S3B-280MM-HD	1100 Grp
13	8	1 ^{1/2}	2 624.3	S3BC-1108-FL	S3BC-1108-HD	S3C-1200	S3B-1108-FL	S3B-1108-HD	1200 Grp
13	8	1 ^{1/2}	2 624.3	S3BC-1200-FL	S3BC-1200-HD	S3C-1200	S3B-1200-FL	S3B-1200-HD	1200 Grp
13	8	1 ^{1/2}	2 624.3	S3BC-300MM-FL	S3BC-300MM-HD	S3C-1200	S3B-300MM-FL	S3B-300MM-HD	1200 Grp
10 ^{1/2}	8	1 ^{1/2}	2 724.2	S3BC-1300-FL	S3BC-1300-HD	S3C-1300	S3B-1300-FL	S3B-1300-HD	1300 Grp
10 ^{1/2}	8	1 ^{1/2}	2 724.2	S3BC-320MM-FL	S3BC-320MM-HD	S3C-1300	S3B-320MM-FL	S3B-320MM-HD	1300 Grp
7 ^{1/2}	8	1 ^{1/2}	2 529.3	S3BC-1400-FL	S3BC-1400-HD	S3C-1400	S3B-1400-FL	S3B-1400-HD	1400 Grp
7 ^{1/2}	8	1 ^{1/2}	2 529.3	S3BC-340MM-FL	S3BC-340MM-HD	S3C-1400	S3B-340MM-FL	S3B-340MM-HD	1400 Grp
7 ^{1/2}	8	1 ^{1/2}	2 529.3	S3BC-360MM-FL	S3BC-360MM-HD	S3C-1400	S3B-360MM-FL	S3B-360MM-HD	1400 Grp
11 ^{1/2}	8	1 ^{1/2}	3 699.0	S3BC-1500-FL	S3BC-1500-HD	S3C-1500	S3B-1500-FL	S3B-1500-HD	1500 Grp
11 ^{1/2}	8	1 ^{1/2}	3 699.0	S3BC-380MM-FL	S3BC-380MM-HD	S3C-1500	S3B-380MM-FL	S3B-380MM-HD	1500 Grp

Split Cylindrical Roller Bearing

S3 series bore



S3BCF.-FL

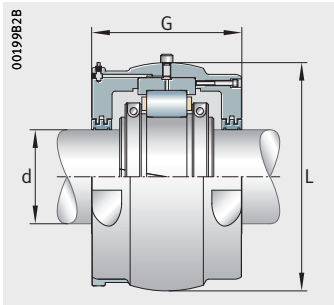
Dimension table (continued) - Dimensions in inch

Shaft diameter		Cartridge assembly						
		Float bearing	Held bearing	Dimension		Grease capacity	Cartridge	
d	G			L ¹⁾	lbs			Weight
inch	mm							lbs
11	–	S3BC-1100-FL	S3BC-1100-HD	14 ¹ / ₁₆	22 ¹ / ₂	22.29	S3C-1100	926.7
–	280	S3BC-280MM-FL	S3BC-280MM-HD	14 ¹ / ₁₆	22 ¹ / ₂	22.29	S3C-1100	926.7
11 ¹ / ₂	–	S3BC-1108-FL	S3BC-1108-HD	14 ⁹ / ₁₆	25 ¹ / ₄	24.69	S3C-1200	1 122.7
12	–	S3BC-1200-FL	S3BC-1200-HD	14 ⁹ / ₁₆	25 ¹ / ₄	24.69	S3C-1200	1 122.7
–	300	S3BC-300MM-FL	S3BC-300MM-HD	14 ⁹ / ₁₆	25 ¹ / ₄	24.69	S3C-1200	1 122.7
13	–	S3BC-1300-FL	S3BC-1300-HD	16 ¹ / ₂	28 ¹ / ₄	26.49	S3C-1300	1 299.6
–	320	S3BC-320MM-FL	S3BC-320MM-HD	16 ¹ / ₂	28 ¹ / ₄	26.49	S3C-1300	1 299.6
14	–	S3BC-1400-FL	S3BC-1400-HD	17	27 ³ / ₄	33.49	S3C-1400	1 549.6
–	340	S3BC-340MM-FL	S3BC-340MM-HD	17	27 ³ / ₄	33.49	S3C-1400	1 549.6
–	360	S3BC-360MM-FL	S3BC-360MM-HD	17	27 ³ / ₄	33.49	S3C-1400	1 549.6
15	–	S3BC-1500-FL	S3BC-1500-HD	17 ¹ / ₄	30 ¹ / ₂	35.49	S3C-1500	1 799.5
–	380	S3BC-380MM-FL	S3BC-380MM-HD	17 ¹ / ₄	30 ¹ / ₂	35.49	S3C-1500	1 799.5

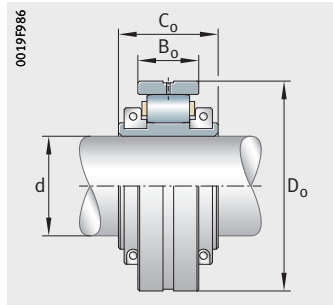
Mounted unit, see page 104.

¹⁾ Length through bore.

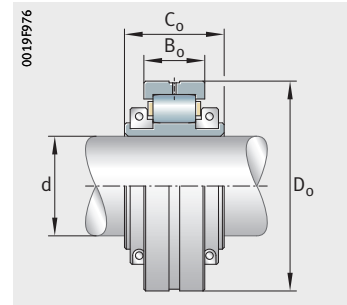
²⁾ Based on axial capacity at 1000 min⁻¹.



S3BCH..-HD



S3BCF..-FL



S3BCH..-HD

Bearing

Float bearing	Held bearing	Bearing rating				Dimension			Weight lbs	Group
		dyn. C _r lbs	stat. C ₀ lbs	axial C _a ⁽²⁾ lbs	max. Speed min ⁻¹	D ₀	C ₀	B ₀		
S3B-1100-FL	S3B-1100-HD	434 538	751 313	19 369	870	19.5	9.606	5.5	427.9	1100 Grp
S3B-280MM-FL	S3B-280MM-HD	434 538	751 313	19 369	870	19.5	9.606	5.5	427.9	1100 Grp
S3B-1108-FL	S3B-1108-HD	442 429	763 816	19 529	785	22	9.606	5.5	550.8	1200 Grp
S3B-1200-FL	S3B-1200-HD	442 429	763 816	19 529	785	22	9.606	5.5	550.8	1200 Grp
S3B-300MM-FL	S3B-300MM-HD	442 429	763 816	19 529	785	22	9.606	5.5	550.8	1200 Grp
S3B-1300-FL	S3B-1300-HD	520 034	877 364	20 394	710	24.5	10.709	6.315	709.8	1300 Grp
S3B-320MM-FL	S3B-320MM-HD	520 034	877 364	20 394	710	24.5	10.709	6.315	709.8	1300 Grp
S3B-1400-FL	S3B-1400-HD	573 035	1 021 889	21 760	700	24.25	10.984	6.22	709.8	1400 Grp
S3B-340MM-FL	S3B-340MM-HD	573 035	1 021 889	21 760	700	24.25	10.984	6.22	709.8	1400 Grp
S3B-360MM-FL	S3B-360MM-HD	573 035	1 021 889	21 760	700	24.25	10.984	6.22	709.8	1400 Grp
S3B-1500-FL	S3B-1500-HD	632 874	1 138 102	22 850	636	27	11.496	6.563	959.7	1500 Grp
S3B-380MM-FL	S3B-380MM-HD	632 874	1 138 102	22 850	636	27	11.496	6.563	959.7	1500 Grp

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