MOTION & CONTROL™

NSK

SELF-LUBE®

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As one of the world's leading manufacturers of rolling bearings, linear technology components and steering systems, we can be found on almost every continent – with production facilities, sales offices and technology centres – because our customers appreciate short decision-making channels, prompt deliveries and local service.

Partnership based on trust – and trust based on quality

Total Quality by NSK: The synergies of our global network of NSK Technology Centres. Just one example of how we meet our requirements for high quality.

NSK is one of the leading companies with a long tradition in patent applications for machine parts. In our worldwide research centres, we not only concentrate on the development of new technologies, but also on the continual improvement of quality based on the integrated technology platform of tribology, material technology, analysis and mechatronics.

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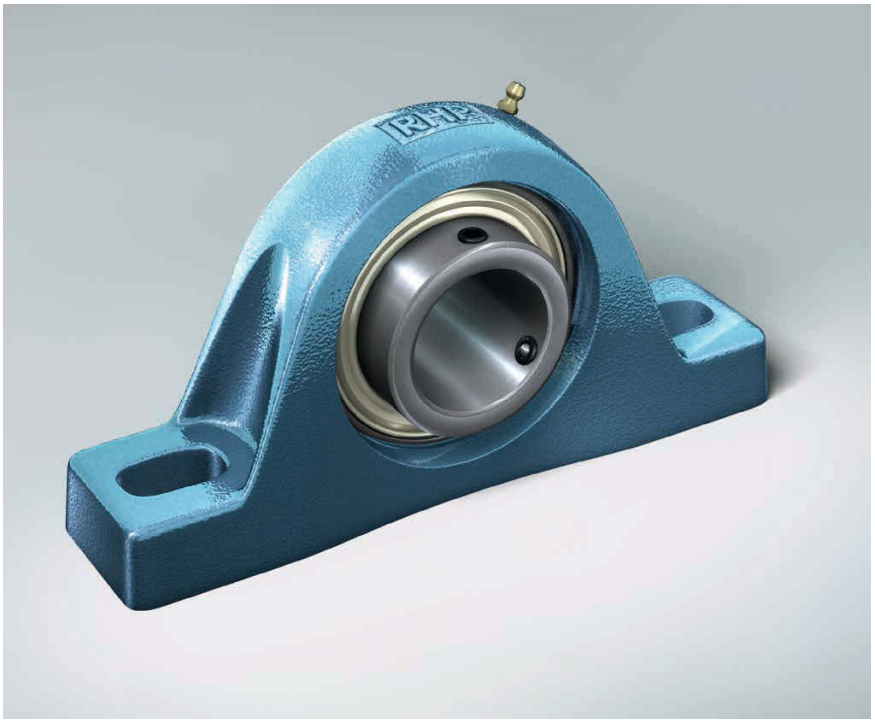
Self-Lube® Bearings

Content

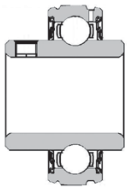
Self-Lube® General Technical Specification

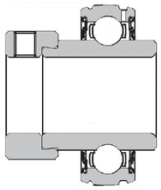


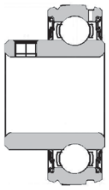
Standard unit references

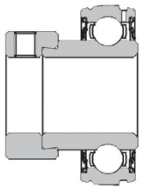
Insert Type

Housing Type


1000G


1000DECG


1200G


1200ECG

Cast iron one piece

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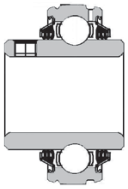
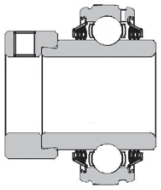
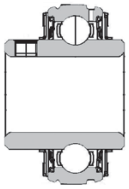


T1000G



T1000DECG



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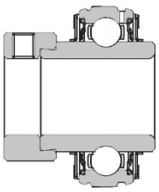
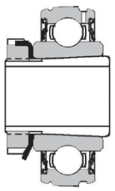


1000DECGFS



1000-KG

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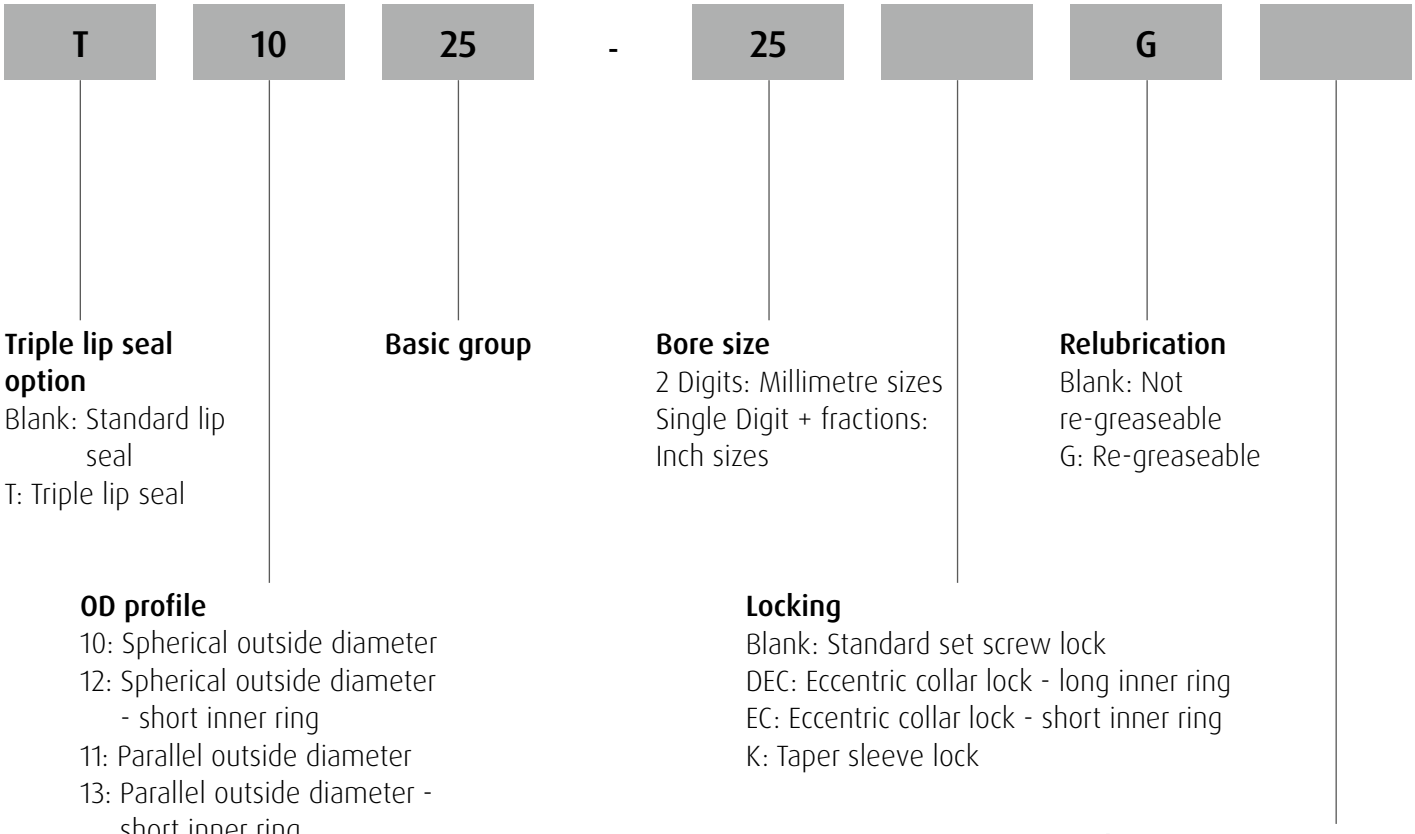
Standard Self-Lube® insert references



List of common prefixes and suffixes

Prefixes

B Unit or bearing insert supplied without locking collar.
J Grease groove on the side of the bearing insert nearest to the locking device.
T Triple lip sealed bearing insert.

Suffixes

A Unit fitted with set screw lock insert with flush inner ring on one side.
C4 Radial clearance greater than C3.
CG Parallel outside diameter insert with grease groove and snap ring fitted.
DEC Eccentric collar lock with extended inner ring.
DL Double locking inner ring – 4 set screws (2 each end).
EC Eccentric collar lock with flush inner ring on one side.
FS Bearing insert fitted with flinger seals.
G Bearing insert having relubrication facility.
HLT High and low temperature bearing insert.
K Bearing insert with tapered bore.
L Larger than normal unit for the basic bore size.
P Housing fitted with ⅛" BSP grease nipple (standard is ¼" UNF).
R Smaller than normal unit for the basic bore size.

Self-Lube® product range

NSK manufactures several ranges of mounted units. These include Self-Lube®, our recognised standard, and recently introduced ranges such as Silver-Lube®, Life-Lube® and Molded-Oil units. In each type, there are two basic components, the insert and the housing.

Self-Lube® bearing inserts

The Self-Lube® bearing insert, commonly known as a wide inner ring bearing, is designed to suit the wide range of housings offered by NSK in the Self-Lube® bearing family and is also suitable for applications where the user's own housing is preferred.

They are basically deep-groove ball bearings, to the popular 6200 series configuration, with integral design features making them more functional and versatile than standard ball bearings. The radial internal clearance is C3 for standard bearing inserts and bearings can be offered with either parallel or spherical outside diameter outer rings with the latter being the type fitted in the bearing unit. The integral design features of the bearing insert, such as shaft locking, sealing and lubrication, are explained in the following pages.

Self-Lube® bearing units

The range of Self-Lube® bearing units offers a wide choice of cast iron, pressed steel, synthetic rubber, thermoplastic or stainless steel housings fitted with spherical outside diameter Self-Lube® bearing inserts. They will generally accommodate initial housing misalignment up to 0.030 radians but are not recommended for running misalignment in excess of 0.001 radians.

The general housing types are pillow blocks, flange units, take-up units, cartridge units and hanger units. Choice is very much determined by the requirements of the application, although the aesthetic appearance of the machine design is often an important consideration. Self-Lube® units have been designed to meet the needs of both criteria.

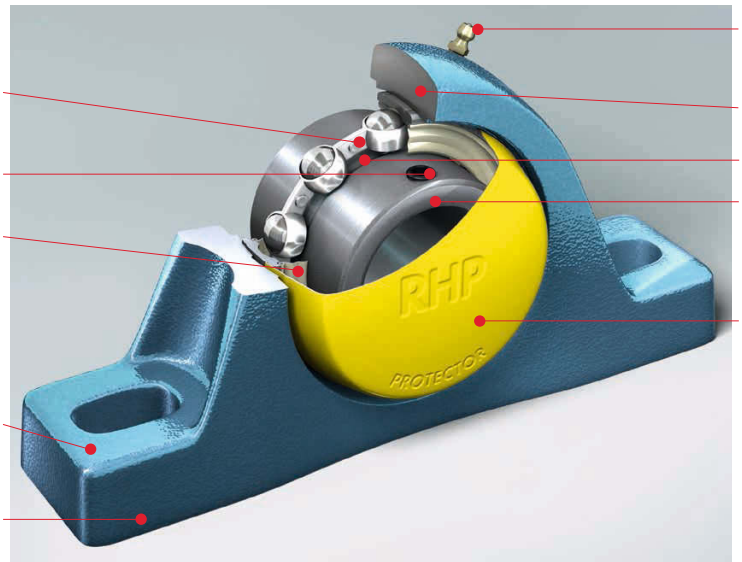
- Cast iron unit castings are made from high-quality cast iron, and finished on unmachined surfaces with an electrostatic air-drying paint.
- Pressed steel housings are made from mild steel strip, and are zinc plated.
- Thermoplastic housings are moulded in highgrade PBT, a high quality thermoplastic polyester resin.
- Stainless steel housings are made from austenitic stainless steel castings (SCS13).

Additional products

NSK recognises the need for 'tailor made' solutions and is always willing to help customers who have a requirement for something out of the ordinary.

Dynamic load ratings

The NSK dynamic load ratings given in this catalogue and the relationship between these and bearing fatigue life are based on ISO standard 281.



Bearing load ratings and endurance

Basic dynamic radial load rating C_r

This is defined as the load that can be applied to the bearing to give a basic L_{10} rating life of one million revolutions. This is the life associated with 90% reliability which has been found by experience to be acceptable for normal engineering bearing applications. The majority of the bearings attain a much longer life and the median life is approximately five times the L_{10} life. Ratings for each series are given in the bearing tables and are used to calculate life for radial loads of constant magnitude and direction.

Equivalent dynamic radial load P_r

For applications where axial and radial loads are present they must be converted into a single equivalent radial load P_r and calculated as follows, where:

F_r = actual radial load (N)
F_a = actual axial load (N)
Y = axial factor from table 18.2
C_{or} = basic static load rating
C_r = dynamic radial load rating
f_o = axial load factor

Note: Axial load F_a must not exceed 0.5 C_{or}.
Select f_o from table 18.1 for the appropriate bearing insert.

Calculate $\frac{f_o F_a}{C_{or}}$ and obtain the value of Y from table 18.2.
Calculate P_r where:

$P_r = F_r$ or
$P_r = 0.56\ F_r + YF_a$

Use whichever P_r value is the greatest.

Relationship between load and life

Having determined the equivalent load P_r the nominal L_{10} bearing life is calculated as follows:

L_{10} life in hours = $\left(\frac{C_r}{P_r}\right)^3 \cdot \frac{10^6}{60_n}$

where n = bearing operating speed (rev/min).
Alternatively, by using the loading ratio $\frac{C_r}{P_r}$ the bearing L_{10} life can be estimated by reading off directly from the tables on page 12 under the appropriate speed column.

Basic static load rating C_{or}

This value is calculated in accordance with ISO standard 76. Ratings for each series are given in the bearing tables.

Static equivalent radial load P_{or}

When static axial and radial loads are applied to a bearing these must be converted to an equivalent static radial load P_{or} where:
F_{or} = actual static radial load (N)
F_{oa} = actual static axial load (N)
Calculate P_{or} where:

$P_{or} = F_{or}$ or
$P_{or} = 0.6\ F_{or} + 0.5\ F_{oa}$

Use whichever P_{or} value is greater, but this value **should not exceed** the bearing static radial load rating C_{or}.

Service factors

It is customary when calculating bearing life to include application factors which allow for fluctuations in loading that occur in service, and from experience the following may be used as a guide.
For steady and light shock loads multiply load by 1.2 to 1.5.
For moderate shock loads multiply load by 1.7 to 2.0.
When selecting the size of bearing for a given load, the calculated life should conform to the L_{10} lives shown in the next column:

- Machines in use 8 hours/day – not fully utilised – 10,000 to 20,000 hours
- Machines in use 8 hours/day – fully utilised – 20,000 to 30,000 hours.
- Machines in use 24 hours/day – 40,000 to 80,000 hours.
- Machines in seasonal use – 4,000 to 8,000 hours.

Limiting loads

The axial load F_{oa} must not exceed half the basic static load rating C_{or}. Housing strengths must also be considered as a limiting factor - see detail on page 17.

Basic bearing insert	f_o	Basic bearing insert	f_o	$\frac{f_o F_a}{C_{or}}$	Y
1017	13.1	1060	14.3	0.172	2.30
1020	13.1	1065	14.4	0.345	1.99
1025	13.9	1070	14.4	0.689	1.71
1030	13.8	1075	14.7	1.03	1.55
1035	13.8	1080	14.6	1.38	1.45
1040	14.0	1085	14.7	2.07	1.31
1045	14.1	1090	14.5	3.45	1.15
1050	14.4	3095	13.6	5.17	1.04
1055	14.3			6.89	1.00

Examples of bearing calculations

Example 1

What nominal life can be obtained from NP55 with a steady radial load F_r = 3900N at speed of 1500 rev/min? The dynamic load rating C_r of the unit from page 23 is 43500N. Since the bearing is not subject to axial load the equivalent load $P_r = F_r$ according to the formula on page 10. Therefore applying the service factor of 1.2 for a steady load.

$P_r = F_r \cdot 1.2 = 3900 \cdot 1.2 = 4680N.$

From page 10,
L_{10} life in hours

$$= \left(\frac{C_r}{P_r}\right)^3 \cdot \frac{10^6}{nx60}$$

$$= \left(\frac{43500}{4680}\right)^3 \cdot \frac{10^6}{1500x60}$$

= 8923 hours

Alternatively, using the loading ratio tables on page 12 an approximate life can be obtained by locating the nearest $\frac{C_r}{P_r}$ value in the appropriate rev/min column.

Therefore $\frac{C_r}{P_r} = \frac{43500}{4680} = 9.29$

Under the 1500 rev/min column the nearest $\frac{C_r}{P_r}$ value is 9.65 which gives an approximate life of 10000 hours.

Example 2

With a radial load F_r = 2940N and an axial load F_a = 1470N at 300 rev/min with moderate shock present, what nominal L_{10} life can be obtained from unit reference SF40? The dynamic radial load rating C_r of the unit from page 37 is 32500N and the static load rating C_{or} is 19900N.
Since the bearing is subject to radial and axial loads we have to establish the equivalent load P_r according to page 10.

First, using the left hand table at the foot of page 10, we establish the value of $\frac{f_0 F_a}{C_{or}}$

$$\frac{f_0 F_a}{C_{or}} = \frac{14.0 \cdot 1\,470}{19900} = 1.03$$

Using this value in the right hand table at the foot of page 10, we establish a value for Y = 1.55.

From page 10 we then calculate the value of P_r

P_r = 2940N

or

$P_r = 0.56\ (2940) + 1.55\ (1470) = 3925N$

Using the greater value of P_r and applying an application factor of 1.7 (page 10) for moderate shock loads:

$P_r = 3925 \cdot 1.7$

= 6673N

From page 10:
L_{10} life hours

$$= \left(\frac{C_r}{P_r}\right)^3 \cdot \frac{10^6}{60n}$$

$$= \left(\frac{32500}{6673}\right)^3 \cdot \frac{10^6}{60x300}$$

= 6418 hours

Alternatively, using the loading ratio tables on page 12, an approximate life can be obtained by locating the nearest C_r/P_r value in the appropriate rev/min column.
Therefore, $C_r/P_r = 32500/6673 = 4.87$.
Under the 300 rev/min column on page 12, calculated value of 4.87 is approximately mid-way between table values of 4.48 and 5.13. By interpolation, this gives an approximate life of 6250 hours.

Housing strength

To check the housing strength for example 2 when the axial load
F_a = 1470N and applying an application factor of 1.7 then:
Axial load = 1470 • 1.7 = 2499N

From page 17 we see that the maximum axial loads for the above unit are:
0.45 C_{or} in one direction, and
0.25 C_{or} in the opposite direction.
Calculating these two maximum axial loads that may be applied to housing:
0.45 • 19900 = 8955N
0.25 • 19900 = 4975N
From the above it can be seen that the housing will support the axial load of 2499N in either direction. Therefore, the unit above is satisfactory for the loading conditions stated.

Note It is advisable to shoulder the shaft for high axial loads.

Loading ratios

Life estimation for ball bearings for different C_r/P_r ratios and speeds

L_{10} life (hours)	Speed: rev/min 25	50	100	150	200	300	500	750	1000
100					1.06	1.22	1.45	1.65	1.82
500		1.14	1.45	1.65	1.82	2.08	2.47	2.82	3.11
1000	1.14	1.44	1.82	2.08	2.29	2.62	3.11	3.56	3.91
1500	1.31	1.65	2.08	2.38	2.62	3.00	3.56	4.07	4.48
2000	1.45	1.82	2.29	2.62	2.88	3.30	3.91	4.48	4.93
3000	1.65	2.08	2.62	3.00	3.30	3.78	4.48	5.13	5.65
5000	1.96	2.47	3.11	3.56	3.91	4.48	5.32	6.08	6.70
7500	2.24	2.82	3.56	4.07	4.48	5.13	6.08	6.96	7.66
10000	2.47	3.11	3.91	4.48	4.93	5.65	6.70	7.66	8.43
19500	2.82	3.56	4.48	5.13	5.65	6.46	7.66	8.77	9.65
20000	3.11	3.91	4.93	5.65	6.21	7.11	8.43	9.65	10.60
30000	3.56	4.48	5.65	6.46	7.11	8.14	9.65	11.10	12.20
40000	3.91	4.93	6.21	7.11	7.81	8.96	10.60	12.20	13.40
60000	4.48	5.65	7.11	8.14	8.96	10.30	12.20	13.90	15.30
80000	4.93	6.21	7.81	8.96	9.83	11.30	13.40	15.30	16.80

Life estimation for ball bearings for different C_r/P_r ratios and speeds

L_{10} life (hours)	Speed: rev/min 1500	2000	3000	4000	5000	6000	8000	10000
100	2.08	2.29	2.62	2.88	3.11	3.30	3.63	3.91
500	3.56	3.91	4.48	4.93	5.32	5.65	6.21	6.69
1000	4.48	4.93	5.65	6.21	6.70	7.11	7.81	8.43
1500	5.13	5.65	6.46	7.11	7.65	8.15	8.96	9.65
2000	5.65	6.21	7.11	7.81	8.43	8.96	9.83	10.60
3000	6.46	7.11	9.14	8.96	9.65	10.30	11.30	12.20
5000	7.66	8.43	9.65	10.60	11.50	12.20	13.40	14.40
7500	8.77	9.65	11.10	12.20	13.10	13.90	15.30	16.50
10000	9.65	10.60	12.20	13.40	14.50	15.30	16.80	18.20
19500	11.10	12.20	13.90	15.30	16.50	17.50	19.30	20.80
20000	12.20	13.40	15.30	16.80	18.50	19.30	21.20	22.90
30000	13.90	15.30	17.50	19.30	20.80	22.10	24.30	26.20
40000	15.30	16.80	19.30	12.20	22.90	24.30	26.70	28.80
60000	17.50	19.30	22.10	14.30	26.20	27.80	30.70	33.00
80000	19.30	21.20	24.30	16.70	28.80	30.70	33.70	36.30

Self-Lube® product range

Under the heading of Self-Lube® bearings there are two basic products: The Self-Lube® bearing insert and the Self-Lube® bearing unit.

Self-Lube® bearing unit

The range of Self-Lube® bearing units offers a wide choice of cast iron, pressed steel or synthetic rubber housings fitted with the full range of spherical outside diameter Self-Lube® bearing inserts. They will accommodate initial housing misalignment up to 0.030 radians but are not recommended for running misalignment in excess of 0.001 radians.

The general housing types are pillow blocks, flange units, take-up units, cartridge units and hanger units. Choice is very much determined by the requirements of the application, although the aesthetic appearance of the machine design is often an important consideration. Self-Lube® units have been designed to meet the needs of both criteria.

The castings are made from high-quality cast iron, and finished on unmachined surfaces with an electrostatic air-drying paint.

Pressed steel housings are made from mild steel strip, and are zinc plated. Rubber housings are moulded in antistatic nitrile rubber.

Self-Lube® Protector

The Self-Lube® Protector is designed to protect the machine operator from the dangers of rotating shaft ends and the external surfaces of the bearing from contamination.

The protector is made from good quality mild steel and coated with enamel paint making it robust, attractive and long lasting. It is easy to fit and can be removed without breakage or deformation thus allowing it to be refitted time after time.

Standard Self-Lube® inserts with spherical outside diameters have a 'groove' in the outer ring on the opposite side from the grease groove. The protector has two claws which locate through the casting loading slots into the 'groove' in the outer ring. This provides a very secure lock and makes the Protector difficult to dislodge. The user of Self-Lube® units is not required to purchase special bearings or provide any additional locking device in order to obtain this secure safety feature.

The Protector can be removed by inserting a form of lever device into a small hole in one of the claws and exerting slight pressure outwards. This disengages the claw from the outer ring 'groove'. A replaceable cover for the hole is provided.

Sealing and Lubrication

Relubrication of Self-Lube® Bearings

NSK Self-Lube® Bearings are factory charged with the correct amount of grease and do not require a further grease charge when being fitted.

Relubrication is not normally necessary except when operating at extremes of temperature, speed and loading, or where excessive wet or dirty conditions exist.

The relubrication frequency varies with the type and quality of grease used as well as the operating conditions. Therefore, it is difficult to establish a general rule, but under ordinary operating conditions, it is desirable that grease be replenished before one third (⅓) of its calculated life elapses. It is necessary, however, to take into consideration such factors as hardening of grease in the oil hole, making replenishment impossible, or deterioration of grease due to oxidation while the machine is running.

The table shows standard relubrication frequencies. Irrespective of the calculated life of the grease, this list takes into consideration such factors as the rotational speed of the bearings, operating temperatures and environmental conditions, with a view to safety.

The performance of a bearing is greatly influenced by the quantity of grease. In order to avoid overfilling, it is advisable to replenish the grease while the machine is in operation. Continue to insert grease until a little oozes out from beneath the sealing lip on the inner ring for optimum performance.

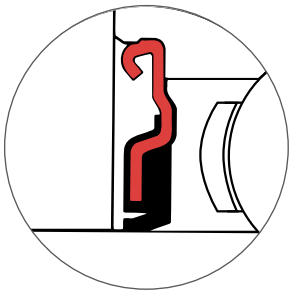
All standard Self-Lube® bearing units have 1/4"-28UNF grease nipples, except for the FC series units which have M5 x 0.8mm pitch grease nipples.

Lubrication

Unit	Unit temperature range	Grease	Supplier
Standard insert	-20°C to +110°C	Alvania S2	Shell
HLT insert	-40°C to +180°C	Kluberquiet BQH72-102	Kluber

Single Lip Seal

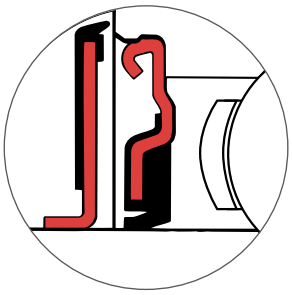
The S-type seal, which is firmly secured in the bearing outer ring, comprises a nitrile rubber sealing element (black in colour) bonded to a strong steel former. The flexible sealing lip contacts the fine ground finish of the inner ring to give low friction with effective sealing.



Single lip seal (standard)

Flinger seal

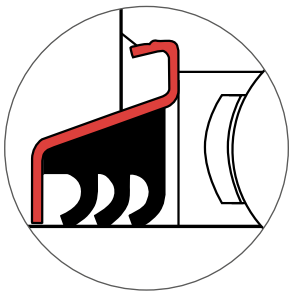
Where extra protection is required without loss of bearing catalogue speed, the 'Flinger seal' is ideal. It consists of a steel flange to which is bonded a flexible nitrile sealing lip. They are offered for the 1000G and 1000DECG types and are identified with the suffix FS (e.g. 1025-25GFS, NP25FS). The flinger is fitted to the inner ring.



Single lip seal + flinger seal

Triple lip seal

For applications with a high degree of contamination, the specially developed RHP triple lip seal is recommended. It consists of a one-piece moulded nitrile seal with three sealing lips, bonded to a protective steel outer pressing which is strongly secured in the outer ring making a highly efficient sealing arrangement. It is not recommended for high speeds. See pages 86 to 88.



Triple lip seal

Standard relubrication frequencies

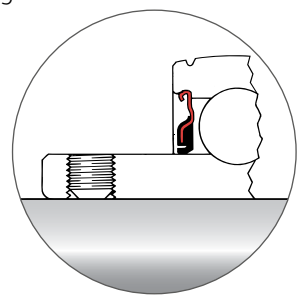
Type of unit	dn Value	Environmental conditions	Operating temp °C, °F		Relubrication frequency	
					Hours	Period
Standard	40000 and below	Ordinary	–15 to +80	+5 to +176	1500 to 3000	6 to 12 mo.
Standard	70000 and below	Ordinary	–15 to +80	+5 to +176	1000 to 2000	3 to 6 mo.
Standard	70000 and below	Ordinary	+80 to +100	+176 to +212	500 to 700	1 mo.
HLT	70000 and below	Ordinary	+100 to +130	+212 to +266	300 to 700	1 mo.
HLT	70000 and below	Ordinary	+130 to +180	+266 to +356	100 to 300	1 wk.
HLT	70000 and below	Ordinary	–60 to +80	–76 to +176	1000 to 2000	3 to 6 mo.
Standard	70000 and below	Very dusty	–15 to +100	+5 to +212	100 to 500	1 wk. to 1 mo.
Standard	70000 and below	Exposed to water splashes	–15 to +100	+5 to +212	30 to 100	1 day to 1 wk.

dn = bore diameter (mm) · speed (rpm)

Shaft locking arrangements

Set screw lock

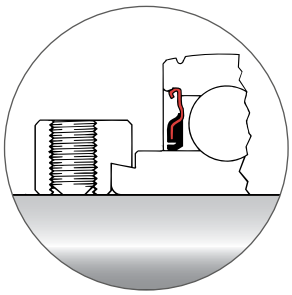
This locking arrangement consists of two knurled cup-point, self-locking, socket-head set screws fitted in the extended inner ring.
For normal loads and moderate speeds simply mount the bearing unit into position and tighten down the set screws to the recommended torque value.
Additional security can be achieved by spot drilling the shaft to accommodate the set screw point. When spot drilling, first remove the set screw and locate the position on the shaft. Select a drill the size of the inner ring threads minor diameter, and drill through this hole into the shaft to the depth of the drill point.
Replace the set screw and tighten onto the shaft in the normal manner.
The recommended tightening torques for the set screws are given on page 16.



Set screw lock

Eccentric collar lock

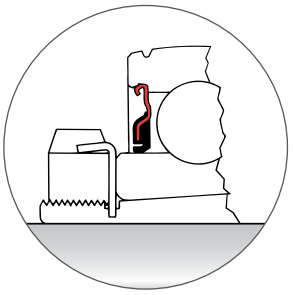
This type of lock consists of an eccentric diameter formed on the extended inner ring of the bearing which engages a similarly formed eccentric diameter in the bore of a separate collar. Locking is achieved by turning the collar in the direction of the shaft rotation until the eccentric diameters of both collar and inner ring are fully engaged. The collar is provided with a blind hole to facilitate tightening when locking the bearing to the shaft. The set screw when tightened to the recommended torque values on page 16 prevents the collar 'backing off' in service.



Eccentric collar lock

Taper sleeve lock

This locking arrangement, which incorporates a standard taper adapter sleeve, locknut and lock washer, is recommended when a positive concentric (shaft) lock is required.
When fitting the bearing to the shaft, care must be taken to ensure that the locknut is not over-tightened as this can eliminate the bearing internal clearance, resulting in premature failure. A lockwasher is provided which prevents the locknut 'backing off' when one of the tabs is engaged with the corresponding notch in the locknut. (See below for fitting instructions).
The recommended tightening torques for the locknuts are given on page 16.



Taper sleeve lock

Mounting Self-Lube® adapter sleeve units

- First bolt the Self-Lube® housing to the equipment and clean the shaft and sleeve bore of any oil or grease.
- Position the shaft within the unit and tighten up the locknut by hand. If the sleeve assembly turns on the shaft tap the sleeve into the bearing to give a positive grip. Tighten locknut to recommended torque value given on page 16.
- Where torque spanner facilities are not available a blunt drift and small hammer may be used to tighten the nut.
- Check that the bearing rotates freely, to ensure that the internal clearance has not been totally removed and that preload has been avoided.
- Finally, secure the nut with the appropriate tab on the locking washer. Tighten the nut slightly if necessary but never back the nut off.
- After 100 hours running it is advisable to check the tightness of the locknut.

Set screw thread and tightening torques

Set screw thread and size

Basic bearing insert reference	Series			
	1000G, 1100, 1200G, 1300		1000DECG, 1100DEC, 1200ECG, 1300EC	
	Inch bore diameters	Metric bore diameters	Inch bore diameters	Metric bore diameters
1017	¼UNF	M6 x 0.75	¼UNF	M6 x 0.75
1020	¼UNF	M6 x 0.75	¼UNF	M6 x 0.75
1025	¼UNF	M6 x 0.75	¼UNF	M6 x 0.75
1030	¼UNF	M6 x 0.75	5/16UNF	M8 x 1.00
1035	5/16UNF	M8 x 1.00	5/16UNF	M8 x 1.00
1040	5/16UNF	M8 x 1.00	⅜UNF	M10 x 1.25
1045	5/16UNF	M8 x 1.00	⅜UNF	M10 x 1.25
1050	⅜UNF	M10 x 1.25	⅜UNF	M10 x 1.25
1055	⅜UNF	M10 x 1.25	⅜UNF	M10 x 1.25
1060	⅜UNF	M10 x 1.25	⅜UNF	M10 x 1.25
1065	⅜UNF	M10 x 1.25	⅜UNF	M10 x 1.25
1070	7/16UNF	M12 x 1.50	⅜UNF	M10 x 1.25
1075	7/16UNF	M12 x 1.50	⅜UNF	M10 x 1.25
1080	7/16UNF	M12 x 1.50	–	–
1085	7/16UNF	M12 x 1.50	–	–
1090	½UNF	M12 x 1.50	–	–
3095	⅝UNF	M16 x 1.50	–	–

Set screw tightening torques and maximum axial loads

Set screw size	Socket/Allen key size (across flats)	Recommended maximum tightening torque		Set screw maximum axial load	
		newton metres (Nm)	lbf-inches	newtons (N)	lbf
¼UNF	⅛"	6.8	60	2500	560
5/16UNF	5/32"	12.4	110	3500	785
⅜UNF	3/16"	22.6	200	4500	1010
7/16UNF	7/32"	31.6	280	7500	1685
½UNF	¼"	45.2	400	9000	2025
⅝UNF	5/16"	53.9	477	15000	3370
M6 x 0.75	3mm	5.7	50	2500	560
M8 x 1.00	4mm	12.4	110	3500	785
M10 x 1.25	5mm	27.1	240	5000	1235
M12 x 1.50	6mm	38.4	340	8000	1800
M16 x 1.50	8mm	53.9	477	15000	3370

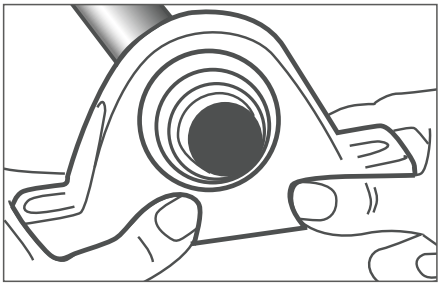
Note: For axial loads in excess of the values listed a shouldered shaft against the face of the inner ring is recommended.

Recommended tightening torques for adapter sleeve units

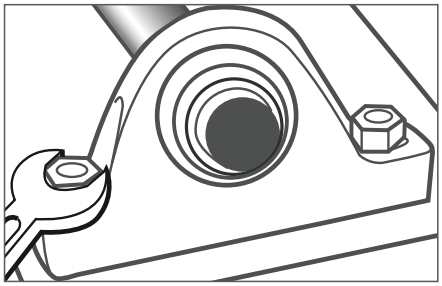
Sleeve bore size	Tightening torques	
	Nm	lbf-inches
20mm, ¾"	30	265
25mm, 15/16", 1"	40	355
30mm, 1⅛", 13/16"	50	440
35mm, 1¼", 1⅜"	60	530
40mm, 17/16", 1½"	65	575
45mm, 1 11/16", 1¾"	75	660
50mm, 1 15/16", 2"	85	750

Mounting instructions for Self-Lube® bearing units

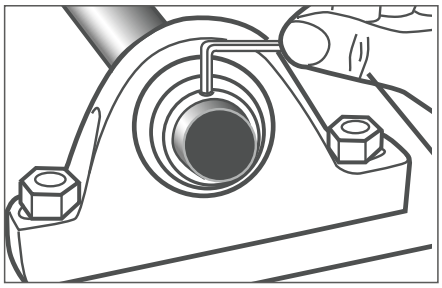
Self-Lube® set screw locking arrangement units



1. Relieve set screws clear of the bore and slide bearing onto the shaft.

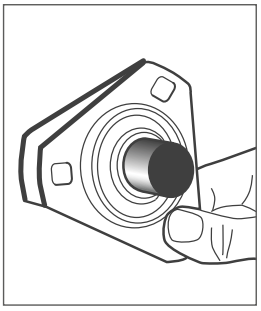


2. Bolt the unit down on to a flat surface but do not over-tighten.

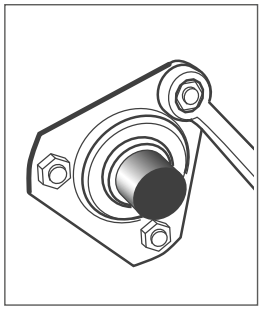


3. Tighten set screws to recommended torque

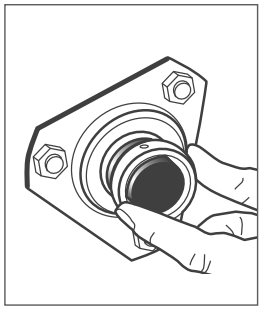
Self-Lube® eccentric collar locking arrangements units



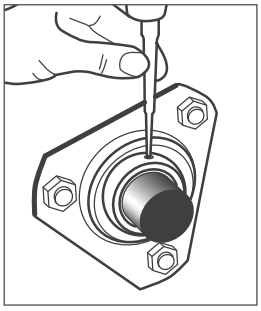
1. Assemble bearing and housing and slide onto the shaft. Do not engage collar.



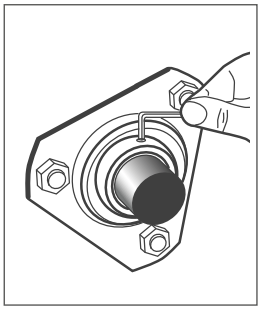
2. Lightly tighten bolts, repeat at other end of shaft and then finally tighten bolts on both sides.



3. Engage the eccentric collar in direction of shaft rotation.



4. Tighten collar with drift pin and small hammer.



5. Tighten collar set screw to recommended torque.

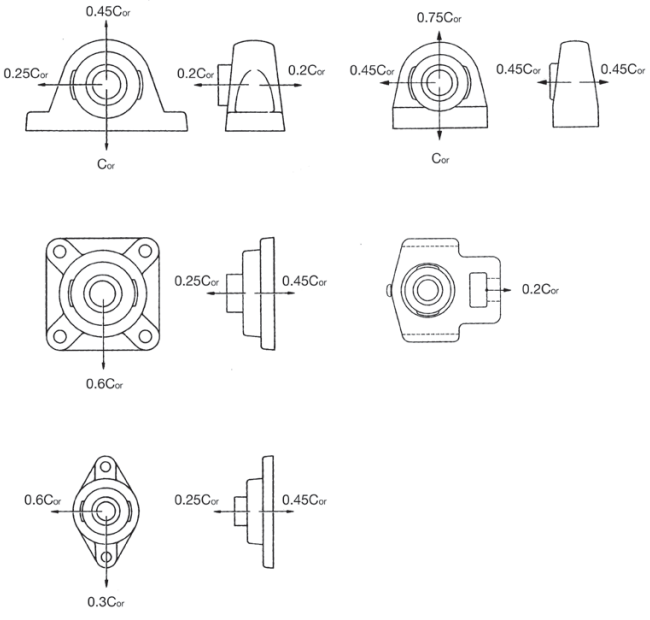
Maximum recommended steady housing loads

The maximum loads shown adjacent are given as a proportion of the static load rating (C_{or}) of the bearing insert. Where the value of the axial load exceeds the set screw maximum axial holding load listed on page 16, a shoulder on the shaft must be provided against the face of the inner ring.

For shock load conditions additional safety factors must be applied.

Housing strength limits

Radial Loads Axial loads



Tolerances and speeds

Inner ring bore tolerances - Set screw and eccentric collar types

Nominal bore diameter d				Tolerances			
				0.001mm units		0.0001 inch units	
mm above	incl.	inch above	incl.	high	low	high	low
10	18	0.3937	0.7087	+15	0	+6	0
18	31.750	0.7087	1.2500	+18	0	+7	0
31.750	50.800	1.2500	2.0000	+21	0	+8	0
50.800	80	2.0000	3.1496	+24	0	+9	0
80	100	3.1496	3.9370	+28	0	+11	0

Outer ring outside diameter tolerances

Nominal outside diameter d		Outside Diameter Tolerances				Width Tolerances					
		0.001mm units		0.0001 inch units		Nominal bearing bore		0.001mm units		0.0001 inch units	
mm above	incl.	high	low	high	low	mm above	including	high	low	high	low
30	50	0	-11	0	-4	9	18	0	-120	0	-47
50	80	0	-13	0	-5	18	30	0	-120	0	-47
80	120	0	-15	0	-6	30	50	0	-120	0	-47
120	150	0	-18	0	-7	50	80	0	-150	0	-59
150	180	0	-25	0	-10	80	120	0	-200	0	-78
180	250	0	-30	0	-12	-	-	-	-	-	-

Housing tolerances for parallel outside diameter inserts - series 1100, 1100DEC, 1300 and 1300EC

Nominal housing bore	Stationary outer ring Housing tolerance ISO H7				Rotating outer ring Housing tolerance ISO N7			
	0.001mm units		0.0001 inch units		0.001mm units		0.0001 inch units	
	high	low	high	low	high	low	high	low
40	+25	0	+10	0	-8	-33	-3	-13
47	+25	0	+10	0	-8	-33	-3	-13
52	+30	0	+12	0	-9	-39	-4	-15
62	+30	0	+12	0	-9	-39	-4	-15
72	+30	0	+12	0	-9	-39	-4	-15
80	+30	0	+12	0	-9	-39	-4	-15
85	+35	0	+14	0	-10	-45	-4	-18
90	+35	0	+14	0	-10	-45	-4	-18
100	+35	0	+14	0	-10	-45	-4	-18
110	+35	0	+14	0	-10	-45	-4	-18
120	+35	0	+14	0	-10	-45	-4	-18
125	+40	0	+16	0	-12	-52	-5	-20
130	+40	0	+16	0	-12	-52	-5	-20
140	+40	0	+16	0	-12	-52	-5	-20
150	+40	0	+16	0	-12	-52	-5	-20
160	+40	0	+16	0	-12	-52	-5	-20

Shaft tolerances and permissible speeds

Basic bearing insert	Shaft dia.		Max speed rev/ min	High loads - high speeds Shaft tolerance ISO h6				Max speed rev/ min	Normal applications Shaft tolerance ISO h7				Max speed rev/ min	Light loads - low speeds Shaft tolerance ISO h9			
				0.001mm units		0.0001 inch units			0.001mm units		0.0001 inch units			0.001mm units		0.0001 inch units	
	mm	inches		high	low	high	low		high	low	high	low		high	low	high	low
1017	12-17	½-1 1/16	7000	0	-11	0	-4	5000	0	-18	0	-7	2000	0	-43	0	-17
1020	20	¾	6700	0	-13	0	-5	4200	0	-21	0	-8	1700	0	-52	0	-20
1025	25	1 3/16-1	6250	0	-13	0	-5	3600	0	-21	0	-8	1350	0	-52	0	-20
1030	25-30	⅞-1¼	5300	0	-13	0	-5	3100	0	-21	0	-8	1100	0	-52	0	-20
1035	30-35	1⅛-1 7/16	4500	0	-16	0	-6	2700	0	-25	0	-10	900	0	-62	0	-24
1040	35-40	1⅜-19/16	4000	0	-16	0	-6	2400	0	-25	0	-10	750	0	-62	0	-24
1045	40-45	1½-1¾	3700	0	-16	0	-6	2200	0	-25	0	-10	600	0	-62	0	-24
1050	45-50	1⅝-2	3400	0	-16	0	-6	1950	0	-25	0	-10	500	0	-62	0	-24
1055	50-55	1⅞-2 3/16	3100	0	-19	0	-7	1800	0	-30	0	-12	450	0	-74	0	-29
1060	55-60	2⅛-2 7/16	2800	0	-19	0	-7	1600	0	-30	0	-12	400	0	-74	0	-29
1065	65	2½	2600	0	-19	0	-7	1500	0	-30	0	-12	350	0	-74	0	-29
1070	60-70	1 7/16-2 11/16	2450	0	-19	0	-7	1400	0	-30	0	-12	300	0	-74	0	-29
1075	65-75	2 11/16-2 15/16	2300	0	-19	0	-7	1300	0	-30	0	-12	280	0	-74	0	-29
1080	75-80	2 15/16-3¼	2150	0	-19	0	-7	1200	0	-30	0	-12	250	0	-74	0	-29
1085	80-85	3 3/16-3 7/16	2000	0	-22	0	-9	1100	0	-35	0	-14	220	0	-87	0	-34
1090	85-90	3 7/16-3½	1900	0	-22	0	-9	1050	0	-35	0	-14	200	0	-87	0	-34
3095	95-100	3 15/16-4	1600	0	-22	0	-9	1000	0	-35	0	-14	180	0	-87	0	-34

For most applications the standard set screw lock is more than satisfactory. Whenever eccentric collar units are used it is recommended that shaft tolerances in the high loads column be adopted. Whenever taper adapter sleeve locking arrangements are used, shaft tolerances in the light loads column can be adopted. When operating conditions are very severe (for example, in case of heavy vibration or shock) a light interference fit may be required between the shaft and bearing bore diameter.

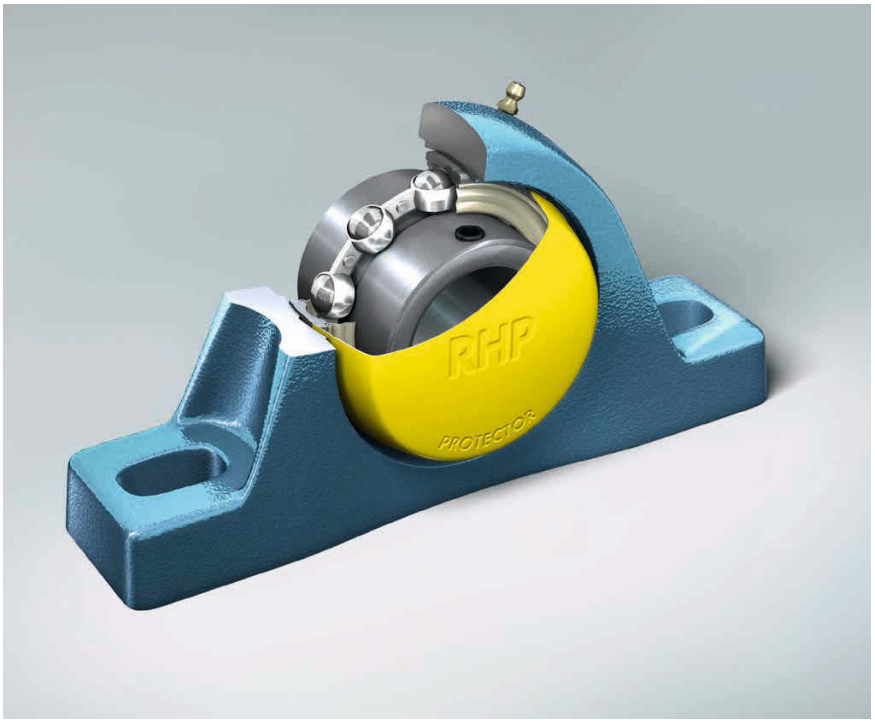
Radial Internal Clearance (RIC)

Radial Internal Clearance	Bearing Type
C3	Standard Self-Lube® bearing series
C4	Taper Sleeve Locking bearing series
C5	HLT bearing series

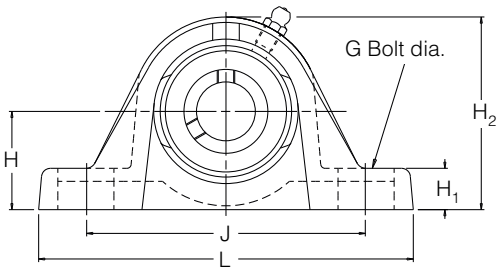
Housing tolerances for bearing units - series FC, MFC, SLC and MSC

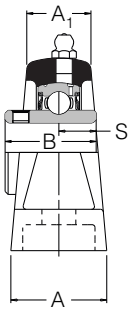
Bearing unit reference	Housing tolerance	
	Stationary housing	Rotating housing
SLC MSC	ISO H7	ISO N7
FC MFC	ISO H7	ISO H7

Self-Lube® Bearing Tables



Self-Lube® cast iron pillow block units
NP Series





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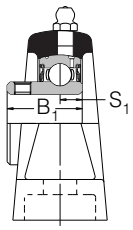
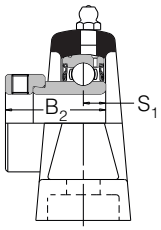
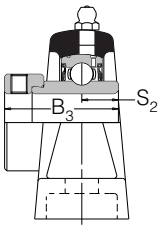


NP-A



NP-EC



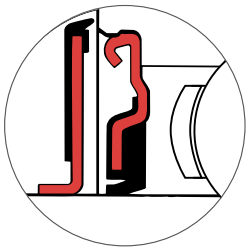
NP-DEC

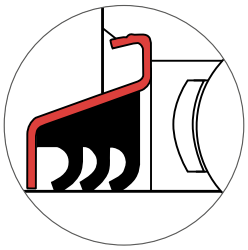
Shaft diameter		RHP designation				Basic bearing insert	Casting group	Dimensions (mm)				Bolt centres	
mm	inches							L	H	H1	H2	J_{max}	J_{min}
12		NP12		NP12EC		1017	1	126.5	30.20	14.2	57.2	100.5	85.5
15		NP15		NP15EC									
16		NP16		NP16EC									
17		NP17		NP17EC									
	½	NP½		NP½EC									
	⅝	NP⅝		NP⅝EC									
20		NP20	NP20A	NP20EC	NP20DEC	1020	2	127.0	33.30	14.0	65.2	100.5	88.5
	¾	NP¾	NP¾A	NP¾EC	NP¾DEC								
25		NP25	NP25A	NP25EC	NP25DEC	1025	3	139.0	36.50	16.0	71.0	112.7	96.8
	⅞	NP⅞		NP⅞EC	NP⅞DEC								
	15/16	NP15/16		NP15/16EC	NP15/16DEC								
	1	NP1	NP1A	NP1EC	NP1DEC								
30		NP30	NP30A	NP30EC	NP30DEC	1030	4	160.5	42.90	17.7	82.7	129.5	108.5
	1⅛	NP1⅛		NP1⅛EC	NP1⅛DEC								
	1 3/16	NP1 3/16		NP1 3/16EC	NP1 3/16DEC								
	1¼	NP1¼R	NP1¼AR	NP1¼ECR	NP1¼DECR								
35		NP35	NP35A	NP35EC	NP35DEC	1035	5	166.0	47.60	17.5	93.0	136.5	121.5
	1¼	NP1¼	NP1¼A	NP1¼EC	NP1¼DEC								
	1⅜	NP1⅜		NP1⅜EC	NP1⅜DEC								
	1 7/16	NP1 7/16		NP1 7/16EC	NP1 7/16DEC								
40		NP40	NP40A	NP40EC	NP40DEC	1040	6	180.5	49.20	18.5	98.5	148.0	127.0
	1½	NP1½	NP1½A	NP1½EC	NP1½DEC								
45		NP45	NP45A	NP45EC	NP45DEC	1045	7	190.5	54.00	20.0	108.0	154.5	140.5
	1⅝	NP1⅝		NP1⅝EC	NP1⅝DEC								
	1 11/16	NP1 11/16		NP1 11/16EC	NP1 11/16DEC								
	1¾	NP1¾	NP1¾A	NP1¾EC	NP1¾DEC								
50		NP50	NP50A	NP50EC	NP50DEC	1050	8	206.0	57.20	21.0	115.2	163.0	154.0
	1⅞	NP1⅞		NP1⅞EC	NP1⅞DEC								
	1 15/16	NP1 15/16		NP1 15/16EC	NP1 15/16DEC								
	2	NP2R			NP2DECR								
55		NP55			NP55DEC	1055	9	219.5	63.50	24.8	129.5	178.5	162.5
	2	NP2			NP2DEC								
	2⅛	NP2⅛			NP2⅛DEC								
	2 3/16	NP2 3/16			NP2 3/16DEC								
60		NP60			NP60DEC	1060	10	240.0	69.90	26.3	142.3	201.0	176.0
	2¼	NP2¼			NP2¼DEC								
	2⅜	NP2⅜			NP2⅜DEC								
	2 7/16	NP2 7/16			NP2 7/16DEC								

Please check availability

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. NP40FS.

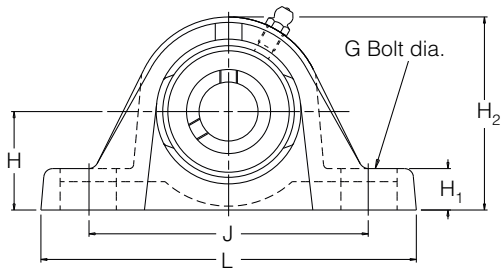
Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TNP25.

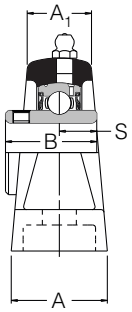




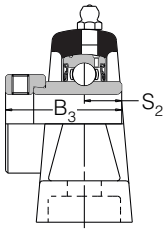
Dimensions (mm)										ISO Load ratings		Rec. max. speed	Mass (approx.)
G	A	A1	B	B1	B2	B3	s	s1	s2	dynamic Cr newtons	static Cor newtons	rev/min	kg
10	30.5	20.5	27.38	–	28.63	–	11.58	6.53	–	9550	4800	7000	0.5
10	32.5	22.5	31.00	25.80	31.03	43.73	12.73	7.53	17.13	12800	6650	6700	0.6
10	36.5	24.5	34.10	27.30	31.03	44.43	14.33	7.53	17.53	14000	7880	6250	0.7
12	41.5	27.5	38.10	31.20	35.73	48.43	15.93	9.03	18.33	19500	11300	5300	1.3
12	44.5	30.5	42.90	34.90	38.93	51.13	17.53	9.53	18.83	25700	15300	4500	1.7
12	51.0	34.5	49.20	41.20	43.73	56.33	19.03	11.03	21.43	32500	19900	4000	2.1
12	54.0	35.0	49.20	41.20	43.73	56.33	19.04	11.04	21.43	32500	20500	3700	2.8
16	55.0	36.0	51.60	43.50	43.73	62.73	19.04	11.04	24.64	35000	23200	3400	3.2
16	60.0	39.5	55.60	–	–	71.42	22.24	–	27.84	43500	29200	3100	4.0
16	70.0	46.0	65.10	–	–	77.84	25.44	–	31.04	48000	33000	2800	5.9

Self-Lube® cast iron pillow block units
NP Series (continued)





NP



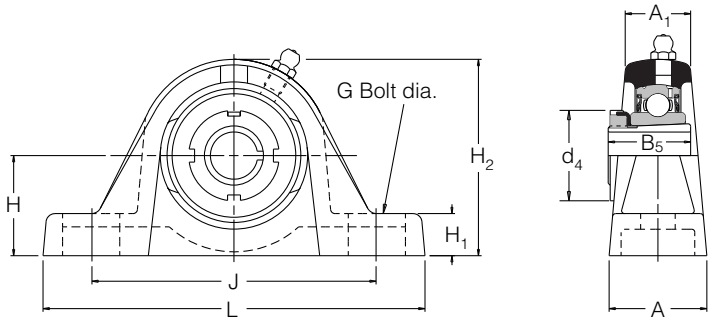
NP-DEC

Shaft diameter		RHP designation		Basic bearing insert	Casting group	Dimensions (mm)				Bolt centres	
mm	inches					L	H	H1	H2	J_{max}	J_{min}
65		**NP65**	**NP65DEC**	1065	10/65	250.0	69.90	26.3	144.3	205.0	176.0
	2½	**NP2½**	**NP2½DEC**								
70		**NP70**	**NP70DEC**	1070	11	266.0	79.40	30.2	156.0	220.0	200.0
	2 11/16	**NP2 11/16**									
75		**NP75**	**NP75DEC**	1075	12	275.0	82.60	28.0	164.0	228.0	206.0
	2¾	**NP2¾**									
	2⅞	**NP2⅞**									
	2 15/16	**NP2 15/16**									
	3	**NP3**									
80		**NP80**		1080	13	291.0	88.90	30.0	174.0	241.0	214.0
	3	**NP3L**									
85		**NP85**		1085	14	310.0	95.20	32.0	187.0	262.0	232.0
		3¼	**NP3¼**								
		3⅜	**NP3⅜**								
90		**NP90**		1090	15	327.0	101.60	36.0	200.0	280.0	244.0
		3 7/16	**NP3 7/16**								
		3½	**NP3½**								

Please check availability

Dimensions (mm)										ISO Load ratings		Rec. max. speed	Mass (approx.)
G	A	A1	B	B1	B2	B3	s	s1	s2	dynamic Cr newtons	static Cor newtons	rev/min	kg
16	70.0	45.0	65.10	–	–	85.74	25.44	–	34.14	57500	40000	2600	5.9
24	72.0	47.0	74.60	–	–	85.74	30.24	–	34.14	61000	45000	2450	8.0
24	74.0	48.0	77.80	–	–	92.14	33.34	–	37.34	66000	49500	2300	9.0
24	78.0	56.0	82.60	–	–	–	33.34	–	–	71500	54500	2150	9.7
24	83.0	56.0	85.70	–	–	–	34.15	–	–	83000	64000	2000	11.8
24	88.0	62.0	96.00	–	–	–	39.74	–	–	96000	71500	1900	14.7

Self-Lube® cast iron pillow block units with adapter sleeves
NP1000-K Series



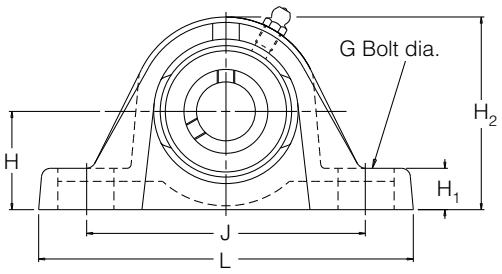
NP1000-K

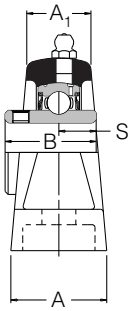
Shaft diameter		RHP designation complete unit	Sleeve nut & lockwasher only	Unit without sleeve, nut & lockwasher	Basic bearing insert	Casting group	Dimensions (mm)				Bolt centres	
mm	inches						L	H	H1	H2	J_{max}	J_{min}
20		**NP1025-20K**	**H305**	**NP1025K**	1025	3	139*	36.50	16.0	71.0	112.7	96.8
	¾	**NP1025-¾K**	**HE305-¾**									
25		**NP1030-25K**	**H306**	**NP1030K**	1030	4	160.5	42.90	17.7	82.7	129.5	108.5
	15/16	**NP1030-15/16K**	**HE306-15/16**									
	1	**NP1030-1K**	**HE306-1**									
30		**NP1035-30K**	**H307**	**NP1035K**	1035	5	166.0	47.60	17.5	93.0	136.5	121.5
	1⅛	**NP1035-1⅛K**	**HE307-1⅛**									
	1 3/16	**NP1035-1 3/16K**	**HE307-1 3/16**									
35		**NP1040-35K**	**H308**	**NP1040K**	1040	6	180.5	49.20	18.5	98.5	148.0	127.0
	1¼	**NP1040-1¼K**	**HE308-1¼**									
	1⅜	**NP1040-1⅜K**	**HE308-1⅜**									
40		**NP1045-40K**	**H309**	**NP1045K**	1045	7	190.5	54.00	20.0	108.0	154.5	140.5
	1 7/16	**NP1045-1 7/16K**	**HE309-1 7/16**									
	1½	**NP1045-1½K**	**HE309-1½**									
45		**NP1050-45K**	**H310**	**NP1050K**	1050	8	206.0	57.20	21.0	115.2	163.0	154.0
	1 11/16	**NP1050-1 11/16K**	**HE310-1 11/16**									
	1¾	**NP1050-1¾K**	**HE310-1¾**									
50		**NP1055-50K**	**H311**	**NP1055K**	1055	9	219.5	63.50	24.8	129.5	178.5	162.5
	1 15/16	**NP1055-1 15/16K**	**HE311-1 15/16**									
	2	**NP1055-2K**	**HE311-2**									

Please check availability

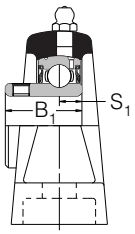
Dimensions (mm)					ISO Load ratings		Rec. max. speed	Mass (approx.)
G	A	A1	B5	d4	dynamic Cr newtons	static Cor newtons	rev/min	kg
10	36.5	24.5	29.0	38.0	14000	7880	6250	0.7
12	41.5	27.5	31.0	45.0	19500	11300	5300	1.3
12	44.5	30.5	35.0	52.0	25700	15300	4500	1.7
12	51.0	34.5	36.0	58.0	32500	19900	4000	2.1
12	54.0	35.0	39.0	65.0	32500	20500	3700	2.8
16	55.0	36.0	42.0	70.0	35000	23200	3400	3.2
16	60.0	39.5	45.0	75.0	43500	29200	3100	4.0

Self-Lube® cast iron pillow block units
SL Series

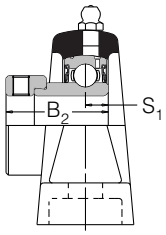




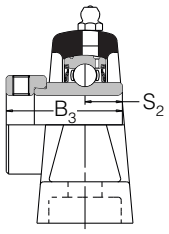
SL



SL-A



SL-EC



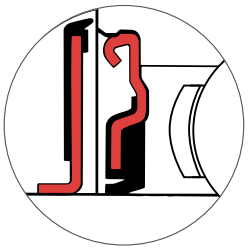
SL-DEC

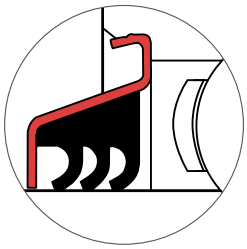
Shaft diameter		RHP designation				Basic bearing insert	Casting group	Dimensions (mm)				Bolt centres	
mm	inches							L	H	H1	H2	J_{max}	J_{min}
12		SL12		SL12EC		1017	1	119.0	26.97	11.0	54.0	91.5	85.5
15		SL15		SL15EC									
16		SL16		SL16EC									
17		SL17		SL17EC									
	½	SL½		SL½EC									
	⅝	SL⅝		SL⅝EC									
20		SL20	SL20A	SL20EC	SL20DEC	1020	2	126.5	31.75	12.5	63.7	100.5	88.5
	¾	SL¾	SL¾A	SL¾EC	SL¾DEC								
25		SL25	SL25A	SL25EC	SL25DEC	1025	3	139.0	33.32	12.8	67.8	110.2	98.2
	⅞	SL⅞		SL⅞EC	SL⅞DEC								
	15/16	SL15/16		SL15/16EC	SL15/16DEC								
	1	SL1	SL1A	SL1EC	SL1DEC								
30		SL30	SL30A	SL30EC	SL30DEC	1030	4	161.5	39.67	14.5	79.5	130.0	109.0
	1⅛	SL1⅛		SL1⅛EC	SL1⅛DEC								
	1 3/16	SL1 3/16		SL1 3/16EC	SL1 3/16DEC								
	1¼	SL1¼R	SL1¼AR	SL1¼ECR	SL1¼DECR								
35		SL35	SL35A	SL35EC	SL35DEC	1035	5	166.0	46.02	16.0	91.5	136.5	121.5
	1¼	SL1¼	SL1¼A	SL1¼EC	SL1¼DEC								
	1⅜	SL1⅜		SL1⅜EC	SL1⅜DEC								
	1 7/16	SL1 7/16		SL1 7/16EC	SL1 7/16DEC								
40		SL40	SL40A	SL40EC	SL40DEC	1040	6	180.5	49.20	18.5	98.5	148.0	127.0
	1½	SL1½	SL1½A	SL1½EC	SL1½DEC								
45		SL45	SL45A	SL45EC	SL45DEC	1045	7	197.5	52.37	18.4	106.4	161.5	141.5
	1⅝	SL1⅝		SL1⅝EC	SL1⅝DEC								
	1 11/16	SL1 11/16		SL1 11/16EC	SL1 11/16DEC								
	1¾	SL1¾	SL1¾A	SL1¾EC	SL1¾DEC								
50		SL50	SL50A	SL50EC	SL50DEC	1050	8	214.0	55.55	19.3	114.0	177.0	151.0
	1⅞	SL1⅞		SL1⅞EC	SL1⅞DEC								
	1 15/16	SL1 15/16		SL1 15/16EC	SL1 15/16DEC								
	2	SL2R			SL2DECR								
55		SL55			SL55DEC	1055	9	219.5	61.90	23.2	128.0	178.5	162.5
	2	SL2			SL2DEC								
	2⅛	SL2⅛			SL2⅛DEC								
	2 3/16	SL2 3/16			SL2 3/16DEC								
60		SL60			SL60DEC	1060	10	240.0	68.25	24.6	140.6	201.0	176.0
	2¼	SL2¼			SL2¼DEC								
	2⅜	SL2⅜			SL2⅜DEC								
	2 7/16	SL2 7/16			SL2 7/16DEC								
65		SL65R				1065	10/65	250.0	68.25	24.6	142.6	205.0	176.0
	2½	SL2½			SL2½DEC								
65		SL65			SL65DEC	1075	11	286.0	82.55	28.0	165.5	241.5	200.5
70		SL70			SL70DEC								
75		SL75			SL75DEC								
	2 11/16	SL2 11/16			SL2 11/16DEC								
	2¾	SL2¾			SL2¾DEC								
	2⅞	SL2⅞			SL2⅞DEC								
	2 15/16	SL2 15/16			SL2 15/16DEC								

Please check availability

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. SL35FS.

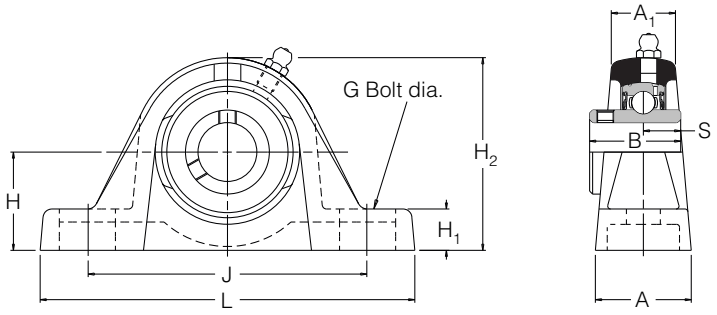
Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSL35.





Dimensions (mm)										ISO Load ratings		Rec. max. speed	Mass (approx.)
G	A	A1	B	B1	B2	B3	s	s1	s2	dynamic Cr newtons	static Cor newtons	rev/min	kg
10	30.5	20.5	27.38	–	28.63	–	11.58	6.53	–	9550	4800	7000	0.5
10	32.0	22.5	31.00	25.80	31.03	43.73	12.73	7.53	17.13	12800	6650	6700	0.6
10	36.0	24.5	34.10	27.30	31.03	44.43	14.33	7.53	17.53	14000	7880	6250	0.7
12	41.0	27.5	38.10	31.20	35.73	48.43	15.93	9.03	18.33	19500	11300	5300	1.3
12	44.5	30.5	42.90	34.90	38.93	51.13	17.53	9.53	18.83	25700	15300	4500	1.7
12	51.0	34.5	49.20	41.20	43.73	56.33	19.03	11.03	21.43	32500	19900	4000	2.1
12	54.0	35.0	49.20	41.20	43.73	56.33	19.04	11.04	21.43	32500	20500	3700	3.0
12	55.0	36.0	51.60	43.50	43.73	62.73	19.04	11.04	24.64	35000	23200	3400	3.4
16	60.0	39.5	55.60	–	–	71.42	22.24	–	27.84	43500	29200	3100	4.0
16	70.0	46.0	65.10	–	–	77.84	25.44	–	31.04	48000	33000	2800	6.1
16	70.0	45.0	65.10	–	–	85.74	25.44	–	34.14	57500	40000	2600	6.2
20	74.0	47.5	77.80	–	–	92.14	33.34	–	37.34	66000	49500	2300	11.6

Self-Lube® cast iron pillow block units
MP Series



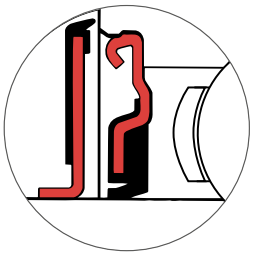
MP

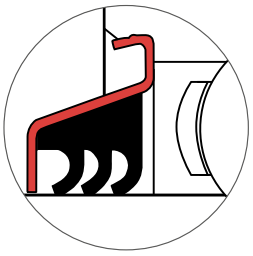
Shaft diameter		RHP designation	Basic bearing insert	Casting group	Dimensions (mm)				Bolt centres	
mm	inches				L	H	H1	H2	J_{max}	J_{min}
25		**MP25**	1030	1	160.5	44.45	19.3	84.3	127.5	108.5
	1	**MP1**								
30		**MP30**	1035	2	166.0	47.60	17.5	93.0	136.5	121.5
	1 3/16	**MP1 3/16**								
	1 1/4	**MP1 1/4**								
35		**MP35**	1040	3	203.2	53.98	23.0	107.5	160.0	135.0
	1 3/8	**MP1 3/8**								
	1 7/16	**MP1 7/16**								
40		**MP40**	1045	4	222.2	58.72	22.5	116.7	172.5	145.0
	1 1/2	**MP1 1/2**								
45		**MP45**	1050	5	222.2	58.72	22.5	116.7	172.5	145.0
	1 11/16	**MP1 11/16**								
	1 3/4	**MP1 3/4**								
50		**MP50**	1055	6	219.5	63.50	24.8	129.5	178.5	162.5
	1 7/8	**MP1 7/8**								
	1 15/16	**MP1 15/16**								
	2	**MP2**								
55		**MP55**	1060	7	249.5	69.85	26.2	142.2	201.0	179.0
	2 3/16	**MP2 3/16**								
	2 1/4	**MP2 1/4**								
60		**MP60**	1070	8	266.0	76.20	27.0	153.0	224.5	189.5
65		**MP65R**								
	2 7/16	**MP2 7/16**								
	2 1/2	**MP2 1/2**								
65		**MP65**	1075	9	330.2	88.90	28.6	177.8	255.6	206.0
70		**MP70**								
	2 11/16	**MP2 11/16**								
	2 3/4	**MP2 3/4**								
75		**MP75**	1080	10	330.2	88.90	31.8	184.2	255.6	228.0
	2 15/16	**MP2 15/16**								
	3	**MP3**								
80		**MP80**	1085	11	381.0	101.60	31.8	203.2	317.5	260.0
	3 3/16	**MP3 3/16**								
	3 1/4	**MP3 1/4**								
85		**MP85**	1090	12	381.0	101.60	33.3	209.6	319.1	246.1
90		**MP90**								
	3 7/16	**MP3 7/16**								
	3 1/2	**MP3 1/2**								
95		**MP95**	3095	13	431.8	127.00	33.3	254.0	371.5	301.6
100		**MP100**								
	3 15/16	**MP3 15/16**								
	4	**MP4**								

Please check availability

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. MP40FS.

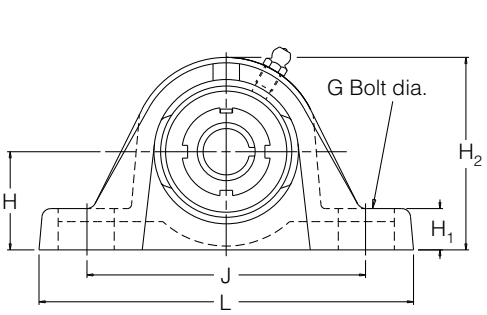
Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TMP40.

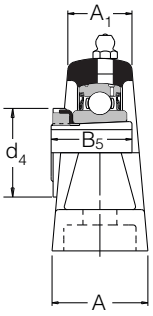




Dimensions (mm)					ISO Load ratings		Rec. max. speed	Mass (approx.)
G	A	A1	B	s	dynamic Cr newtons	static Cor newtons	rev/min	kg
12	41.5	27.5	38.10	15.93	19500	11300	5300	1.3
12	44.5	30.5	42.90	17.53	25700	15300	4500	1.7
12	57.0	40.5	49.20	19.03	32500	19900	4000	2.7
16	60.0	39.5	49.20	19.04	32500	20500	3700	3.2
16	60.0	39.5	51.60	19.04	35000	23200	3400	3.2
16	60.0	39.5	55.60	22.24	43500	29200	3100	4.0
20	69.5	46.00	65.10	25.44	48000	33000	2800	7.1
20	72.0	47.0	74.60	30.24	61000	45000	2450	9.3
24	88.9	66.7	77.80	33.34	66000	49500	2300	13.4
24	88.9	66.7	82.60	33.34	71500	54500	2150	14.3
24	101.6	68.3	85.70	34.15	83000	64000	2000	18.2
24	111.1	79.4	96.00	39.74	96000	71500	1900	23.4
24	120.6	98.4	117.48	49.31	157000	122000	1600	34.4

Self-Lube® cast iron pillow block units with adapter sleeves
MP1000-K Series





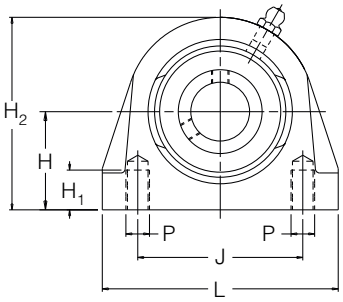
MP 1000-K

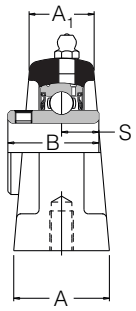
Shaft diameter		RHP designation complete unit	Sleeve nut & lockwasher only	Unit without sleeve, nut & lockwasher	Basic bearing insert	Casting group	Dimensions (mm)				Bolt centres	
mm	inches						L	H	H1	H2	J_{max}	J_{min}
25		**MP1030-25K**	**H306**	**MP1030K**	1030	1	160.5	44.45	19.3	87.4	127.5	108.5
	15/16	**MP1030-15/16K**	**HE306-15/16**									
	1	**MP1030-1K**	**HE306-1**									
30		**MP1035-30K**	**H307**	**MP1035K**	1035	2	166.0	47.60	17.5	93.0	136.5	121.5
	1 1/8	**MP1035-1 1/8K**	**HE307-1 1/8**									
	1 3/16	**MP1035-1 3/16K**	**HE307-1 3/16**									
35		**MP1040-35K**	**H308**	**MP1040K**	1040	3	203.2	53.98	23.0	106.4	160.0	135.0
	1 1/4	**MP1040-1 1/4K**	**HE308-1 1/4**									
	1 3/8	**MP1040- 1 3/8K**	**HE308-1 3/8**									
40		**MP1045-40K**	**H309**	**MP1045K**	1045	4	222.2	58.72	22.5	116.7	172.5	145.0
	1 7/16	**MP1045-1 7/16K**	**HE309-1 7/16**									
	1 1/2	**MP1045-1 1/2K**	**HE309-1 1/2**									
45		**MP1050-45K**	**H310**	**MP1050K**	1050	5	222.2	58.72	22.5	116.7	172.5	145.0
	1 11/16	**MP1050-1 11/16K**	**HE310-1 11/16**									
	1 3/4	**MP1050-1 3/4K**	**HE310-2**									
50		**MP1055-50K**	**H311**	**MP1055K**	1055	6	219.5	63.50	24.8	129.5	178.5	162.5
	1 15/16	**MP1055-1 15/16K**	**HE311-1 15/16**									
	2	**MP1055-2K**	**HE311-2**									

Please check availability

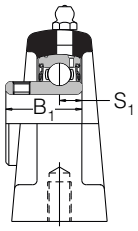
Dimensions (mm)					ISO Load ratings		Rec. max. speed	Mass (approx.)
G	A	A1	B5	d4	dynamic Cr newtons	static Cor newtons	rev/min	kg
12	41.5	27.5	31.00	45.00	19500	11300	5300	1.3
12	44.5	30.5	35.00	52.00	25700	15300	4500	1.7
12	57.0	40.5	36.00	58.00	32500	19900	4000	2.7
16	60.0	39.5	39.00	65.00	32500	20500	3700	3.2
16	60.0	39.5	42.00	70.00	35000	23200	3400	3.2
16	60.0	39.5	45.00	75.00	43500	29200	3100	4.0

Self-Lube® short base cast iron pillow block units
SNP Series (metric thread), CNP Series (UNC thread)**

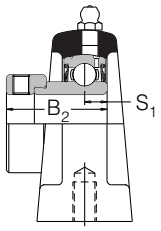




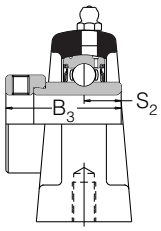
SNP/CNP



SNP-A
CNP-A



SNP-EC
CNP-EC



SNP-DEC
CNP-DEC

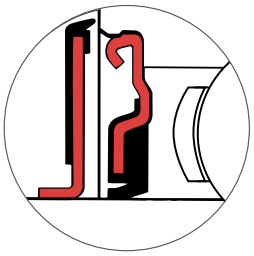
Shaft diameter		RHP designation				Basic bearing insert	Casting group	Dimensions (mm)				Bolt centres	
mm	inches							L	H	H1	H2	J	SNP
20		SNP20	SNP20A	SNP20EC	SNP20DEC	1020	2	65.0	33.30	13.5	65.8	50.8	M8x1.25
	¾	SNP¾	SNP¾4A	SNP¾EC	SNP¾DEC								
25		SNP25	SNP25A	SNP25EC	SNP25DEC	1025	3	70.0	36.50	13.5	71.5	50.8	M10x1.50
	⅞	SNP⅞		SNP⅞EC	SNP⅞DEC								
	15⁄16	SNP15⁄16		SNP15⁄16EC	SNP15⁄16DEC								
	1	SNP1	SNP1A	SNP1EC	SNP1DEC								
30		SNP30	SNP30A	SNP30EC	SNP30DEC	1030	4	96.0	42.90	16.5	83.9	76.2	M10x1.50
	1⅛	SNP1⅛		SNP1⅛EC	SNP1⅛DEC								
	13⁄16	SNP13⁄16		SNP13⁄16EC	SNP13⁄16DEC								
	1¼	SNP1¼R	SNP1¼AR	SNP1¼ECR	SNP1¼DECR								
35		SNP35	SNP35A	SNP35EC	SNP35DEC	1035	5	110.0	47.60	19.5	95.6	82.6	M10x1.50
	1¼	SNP1¼	SNP1¼A	SNP1¼EC	SNP1¼DEC								
	1⅜	SNP1⅜		SNP1⅜EC	SNP1⅜DEC								
	17⁄16	SNP17⁄16		SNP17⁄16EC	SNP17⁄16DEC								
40		SNP40	SNP40A	SNP40EC	SNP40DEC	1040	6	118.0	49.20	19.5	101.7	88.9	M12x1.75
	1½	SNP1½	SNP1½A	SNP1½EC	SNP1½DEC								
45		SNP45	SNP45A	SNP45EC	SNP45DEC	1045	7	127.0	54.00	19.5	110.0	95.3	M12x1.75
	1⅝	SNP1⅝		SNP1⅝EC	SNP1⅝DEC								
	111⁄16	SNP111⁄16		SNP111⁄16EC	SNP111⁄16DEC								
	1¾	SNP1¾	SNP1¾A	SNP1¾EC	SNP1¾DEC								
50		SNP50	SNP50A	SNP50EC	SNP50DEC	1050	8	135.0	57.20	23.5	115.0	101.6	M16x2.00
	1⅞	SNP1⅞		SNP1⅞EC	SNP1⅞DEC								
	115⁄16	SNP115⁄16		SNP115⁄16EC	SNP115⁄16DEC								
	2	SNP2R											
55		SNP55			SNP55DEC	1055	9	150.0	63.50	26.5	130.0	118.0	M16x2.00
	2	SNP2			SNP2DEC								
	2⅛	SNP2⅛			SNP2⅛DEC								
	23⁄16	SNP23⁄16			SNP23⁄16DEC								
60		SNP60			SNP60DEC	1060	10	154.0	69.90	26.5	141.5	118.0	M16x2.00
	2¼	SNP2¼			SNP2¼DEC								
	2⅜	SNP2⅜			SNP2⅜DEC								
	27⁄16	SNP27⁄16			SNP27⁄16DEC								

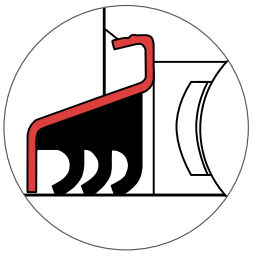
Please check availability

**These units are identical to SNP series except for thread details

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. SNP25FS.

Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSNP25.

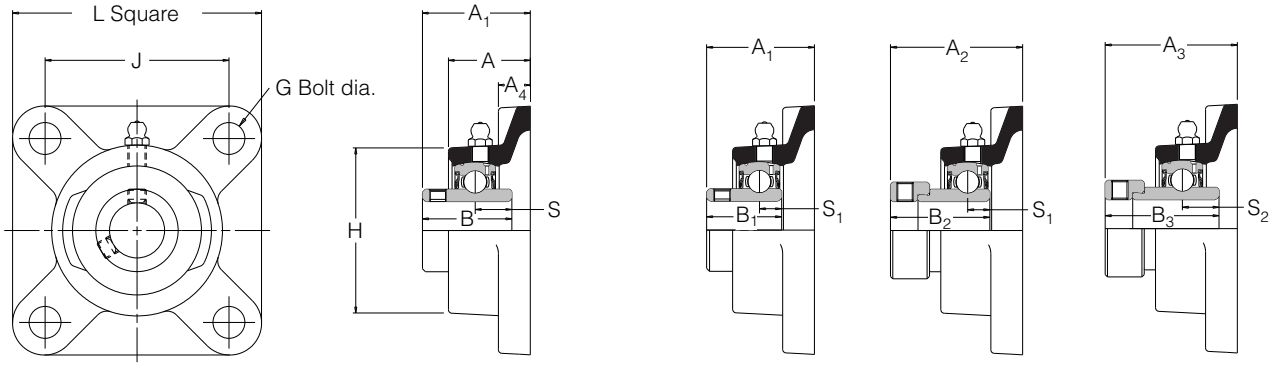




P

Dimensions (mm)										ISO Load ratings		Rec. max. speed	Mass (approx.)
CNP	A	A1	B	B1	B2	B3	s	s1	s2	dynamic Cr newtons	static Cor newtons	rev/min	kg
3/8-16UNC	32.0	21.5	31.00	25.80	31.03	43.73	12.73	7.53	17.13	12800	6650	6700	0.9
3/8-16UNC	36.0	25.0	34.10	27.30	31.03	44.43	14.33	7.53	17.53	14000	7880	6250	1.2
7/16-14UNC	40.0	26.5	38.10	31.20	35.73	48.43	15.93	9.03	18.33	19500	11300	5300	1.8
1/2-13UNC	45.0	30.0	42.90	34.90	38.93	51.13	17.53	9.53	18.83	25700	15300	4500	2.4
1/2-13UNC	47.0	32.0	49.20	41.20	43.73	56.33	19.03	11.03	21.43	32500	19900	4000	2.8
1/2-13UNC	48.0	33.0	49.20	41.20	43.73	56.33	19.04	11.04	21.43	32500	20500	3700	3.5
5/8-11UNC	54.0	35.5	51.60	43.50	43.73	62.73	19.04	11.04	24.64	35000	23200	3400	3.3
5/8-11UNC	60.0	41.5	55.60	–	–	71.42	22.24	–	27.84	43500	29200	3100	4.0
5/8–11UNC	60.0	41.5	65.10	–	–	77.84	25.44	–	31.04	48000	33000	2800	4.6

Self-Lube® cast iron flange bearing units
SF Series



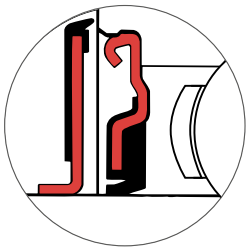
SF SF-A SF-EC SF-DEC

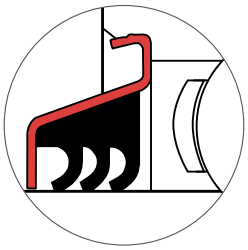
Shaft diameter mm	Shaft diameter inches	RHP designation				Basic bearing insert	Casting group	Dimensions (mm) L	H	J	G	A	A1
12		**SF12**		**SF12EC**		1017	1	76.2	52.5	54.00	10	24.6	32.87
15		**SF15**		**SF15EC**									
16		**SF16**		**SF16EC**									
17		**SF17**		**SF17EC**									
	½	**SF½**		**SF½EC**									
	⅝	**SF⅝**		**SF⅝EC**									
20		**SF20**	**SF20A**	**SF20EC**	**SF20DEC**	1020	2	85.7	60.3	63.50	10	27.8	37.26
	¾	**SF¾**	**SF¾A**	**SF¾EC**	**SF¾DEC**								
25		**SF25**	**SF25A**	**SF25EC**	**SF25DEC**	1025	3	95.3	68.0	70.00	10	28.6	38.84
	⅞	**SF⅞**		**SF⅞EC**	**SF⅞DEC**								
	15/16	**SF15/16**		**SF15/16EC**	**SF15/16DEC**								
	1	**SF1**	**SF1A**	**SF30EC**	**SF1DEC**								
30		**SF30**	**SF30A**	**SF1EC**	**SF30DEC**	1030	4	108.0	82.6	82.50	10	29.8	42.21
	1⅛	**SF1⅛**		**SF1⅛EC**	**SF1⅛DEC**								
	13/16	**SF13/16**		**SF13/16EC**	**SF13/16DEC**								
	1¼	**SF1¼R**	**SF1¼AR**	**SF1¼ECR**	**SF1¼DECR**								
35		**SF35**	**SF35A**	**SF35EC**	**SF35DEC**	1035	5	117.5	95.3	92.00	12	31.4	46.41
	1¼	**SF1¼**	**SF1¼A**	**SF1¼EC**	**SF1¼DEC**								
	1⅜	**SF1⅜**		**SF1⅜EC**	**SF1⅜DEC**								
	17/16	**SF17/16**		**SF17/16EC**	**SF17/16DEC**								
40		**SF40**	**SF40A**	**SF40EC**	**SF40DEC**	1040	6	130.2	101.6	101.50	12	34.9	54.18
	1½	**SF1½**	**SF1½A**	**SF1½EC**	**SF1½DEC**								
45		**SF45**	**SF45A**	**SF45EC**	**SF45DEC**	1045	7	136.5	111.1	105.00	16	35.3	54.18
	1⅝	**SF1⅝**		**SF1⅝EC**	**SF1⅝DEC**								
	111/16	**SF111/16**		**SF111/16EC**	**SF111/16DEC**								
	1¾	**SF1¾**	**SF1¾A**	**SF1¾EC**	**SF1¾DEC**								
50		**SF50**	**SF50A**	**SF50EC**	**SF50DEC**	1050	8	142.9	115.9	111.00	16	39.7	60.53
	1⅞	**SF1⅞**		**SF1⅞EC**	**SF1⅞DEC**								
	115/16	**SF115/16**		**SF115/16EC**	**SF115/16DEC**								
	2	**SF2R**											
55		**SF55**			**SF55DEC**	1055	9	161.9	122.5	130.00	16	43.7	64.31
	2	**SF2**			**SF2DEC**								
	2⅛	**SF2⅛**			**SF2⅛DEC**								
	23/16	**SF23/16**			**SF23/16DEC**								
60		**SF60**			**SF60DEC**	1060	10	174.5	135.5	143.00	16	47.6	73.69
	2¼	**SF2¼**			**SF2¼DEC**								
	2⅜	**SF2⅜**			**SF2⅜DEC**								
	27/16	**SF27/16**			**SF27/16DEC**								
65		**SF65R**				1065	10/65	174.5	149.5	143.00	16	47.6	73.69
	2½	**SF2½**			**SF2½DEC**								
65		**SF65**			**SF65DEC**	1070	11	187.5	155.5	149.22	16	47.6	77.72
70		**SF70**			**SF70DEC**								
	2⅝	**SF2⅝**			**SF2⅝DEC**								
	211/16	**SF211/16**			**SF211/16DEC**								
75		**SF75**			**SF75DEC**	1075	12	196.5	158.5	152.40	20	51.3	80.90
	2¾	**SF2¾**			**SF2¾DEC**								
	2⅞	**SF2⅞**			**SF2⅞DEC**								
	215/16	**SF215/16**			**SF215/16DEC**								
	3	**SF3**											

Please check availability

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. SF25FS.

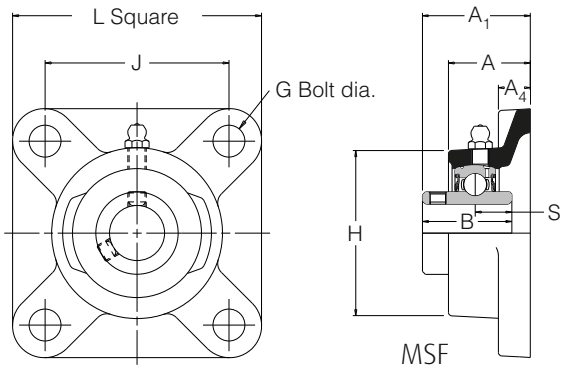
Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSF25.





Dimensions (mm)										ISO Load ratings		Rec. max. speed	Mass (approx.)
A2	A3	A4	B	B1	B2	B3	s	s1	s2	dynamic Cr newtons	static Cor newtons	rev/min	kg
39.01	–	9.5	27.38	–	28.63	–	11.58	6.53	–	9550	4800	7000	0.5
42.42	45.54	11.1	31.00	25.80	31.03	43.73	12.73	7.53	17.13	12800	6650	6700	0.7
42.42	45.95	11.1	34.10	27.30	31.03	44.43	14.33	7.53	17.53	14000	7880	6250	1.0
46.66	50.90	12.7	38.10	31.20	35.73	48.43	15.93	9.03	18.33	19500	11300	5300	1.3
50.34	53.31	12.7	42.90	34.90	38.93	51.13	17.53	9.53	18.83	25700	15300	4500	1.7
56.52	58.90	12.7	49.20	41.20	43.73	56.33	19.03	11.03	21.43	32500	19900	4000	2.2
56.62	58.90	14.3	49.20	41.20	43.73	56.33	19.03	11.03	21.43	32500	20500	3700	2.6
60.60	66.07	14.3	51.60	43.50	43.73	62.73	19.04	11.04	24.64	35000	23200	3400	2.8
–	74.57	17.5	55.60	–	–	71.42	22.24	–	27.84	43500	29200	3100	4.0
–	80.77	17.5	65.10	–	–	77.84	25.44	–	31.04	48000	33000	2800	4.7
–	80.77	18.0	65.10	–	–	85.74	25.44	–	34.14	57500	40000	2600	4.7
–	84.86	18.0	74.60	–	–	85.74	30.24	–	34.14	61000	45000	2450	6.8
–	91.21	23.0	77.80	–	–	92.14	33.34	–	37.34	66000	49500	2300	8.6

Self-Lube® cast iron flange bearing units
MSF Series

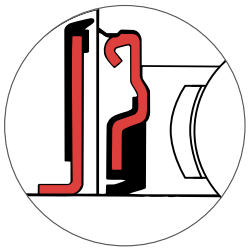


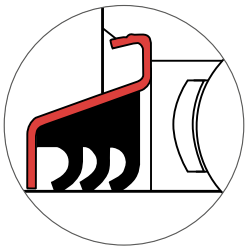
Shaft diameter		RHP designation	Basic bearing insert	Casting group	Dimensions (mm)		
mm	inches				L	H	J
25		**MSF25**	1030	1	108.0	82.6	82.50
	1	**MSF1**					
30		**MSF30**	1035	2	117.5	95.3	92.00
	1 3/16	**MSF1 3/16**					
	1 1/4	**MSF1 1/4**					
35		**MSF35**	1040	3	130.2	101.6	101.50
	1 3/8	**MSF1 3/8**					
	1 7/16	**MSF1 7/16**					
40		**MSF40**	1045	4	136.5	111.1	105.00
	1 1/2	**MSF1 1/2**					
45		**MSF45**	1050	5	142.9	115.9	111.00
	1 11/16	**MSF1 11/16**					
	1 3/4	**MSF1 3/4**					
50		**MSF50**	1055	6	161.9	122.5	130.00
	1 7/8	**MSF1 7/8**					
	1 15/16	**MSF1 15/16**					
	2	**MSF2**					
55		**MSF55**	1060	7	174.5	135.5	143.00
	2 3/16	**MSF2 3/16**					
	2 1/4	**MSF2 1/4**					
60		**MSF60**	1070	8	187.6	155.5	149.22
	2 7/16	**MSF2 7/16**					
	2 1/2	**MSF2 1/2**					
65		**MSF65**	1075	9	196.5	158.5	152.40
70		**MSF70**					
	2 11/16	**MSF2 11/16**					
	2 3/4	**MSF2 3/4**					
75		**MSF75**	1080	10	196.5	173.5	152.40
	2 15/16	**MSF2 15/16**					
	3	**MSF3**					
80		**MSF80**	1085	11	213.5	184.0	171.45
	3 3/16	**MSF3 3/16**					
	3 1/4	**MSF3 1/4**					
85		**MSF85**	1090	12	213.5	196.5	171.45
90		**MSF90**					
	3 7/16	**MSF3 7/16**					
	3 1/2	**MSF3 1/2**					
95		**MSF95**	3095	13	267.5	235.5	211.12
100		**MSF100**					
	3 15/16	**MSF3 15/16**					
	4	**MSF4**					

Please check availability

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. MSF35FS.

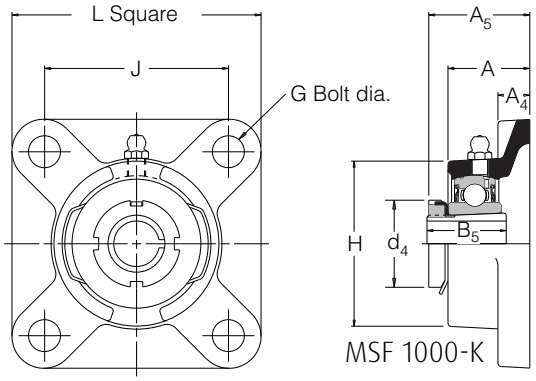
Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TMSF35.





Dimensions (mm)						ISO Load ratings		Rec. max. speed	Mass (approx.)
G	A	A1	A4	B	s	dynamic Cr newtons	static Cor newtons	rev/min	kg
10	29.8	42.21	12.7	38.10	15.93	19500	11300	5300	1.3
12	31.4	46.41	12.7	42.90	17.53	25700	15300	4500	1.7
12	34.9	54.18	12.7	49.20	19.03	32500	19900	4000	2.2
16	35.3	54.18	14.3	49.20	19.03	32500	20500	3700	2.6
16	39.7	60.53	14.3	51.60	19.04	35000	23200	3400	2.8
16	43.7	64.31	17.5	55.60	22.24	43500	29200	3100	4.0
16	47.6	73.69	17.5	65.10	25.44	48000	33000	2800	4.7
16	47.6	77.20	18.0	74.60	30.24	61000	45000	2450	6.8
20	51.3	80.90	23.0	77.80	33.34	66000	49500	2300	8.6
20	55.0	88.87	23.0	82.60	33.34	71500	54500	2150	9.3
20	54.3	89.64	26.0	85.70	34.15	83000	64000	2000	11.1
20	61.7	100.76	26.0	96.00	39.74	96000	71500	1900	13.2
24	83.5	126.95	32.0	117.48	49.31	157000	122000	1600	24.7

Self-Lube® cast iron flange bearing units with adapter sleeves
MSF 1000-K Series

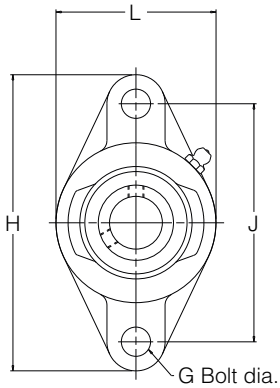


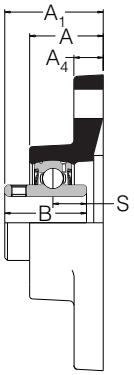
Shaft diameter		RHP designation complete unit	Sleeve nut & lockwasher only	Unit without sleeve, nut & lockwasher	Basic bearing insert	Casting group	Dimensions (mm)		
mm	inches						L	H	J
20		**MSF1025-20K**	**H305**	**MSF1025K**	1025	SF3	95.3	68.0	70.0
	¾	**MSF1025-¾K**	**HE305¾**						
25		**MSF1030-25K**	**H306**	**MSF1030K**	1030	1	108.0	82.6	82.5
	15/16	**MSF1030-15/16K**	**HE306-15/16**						
	1	**MSF1030-1K**	**HE306-1**						
30		**MSF1035-30K**	**H307**	**MSF1035K**	1035	2	117.5	95.3	92.0
	1⅛	**MSF1035-1⅛K**	**HE307-1⅛**						
	1 3/16	**MSF1035-1 3/16K**	**HE307-1 3/16**						
35		**MSF1040-35K**	**H308**	**MSF1040K**	1040	3	130.2	101.6	101.5
	1¼	**MSF1040-1¼K**	**HE308-1¼**						
	1⅜	**MSF1040-1⅜K**	**HE308-1⅜**						
40		**MSF1045-40K**	**H309**	**MSF1045K**	1045	4	136.5	111.1	105.0
	1 7/16	**MSF1045-1 7/16K**	**HE309-1 7/16**						
	1½	**MSF1045-1½K**	**HE309-1½**						
45		**MSF1050-45K**	**H310**	**MSF1050K**	1050	5	142.9	115.9	111.0
	1 11/16	**MSF1050-1 11/16K**	**HE310-1 11/16**						
	1¾	**MSF1050-1¾K**	**HE310-1¾**						
50		**MSF1055-50K**	**H311**	**MSF1055K**	1055	6	161.9	127.0	130.0
	1 15/16	**MSF1055-1 15/16K**	**HE311-1 15/16**						
	2	**MSF1055-2K**	**HE311-2**						

Please check availability

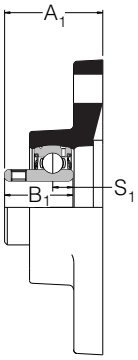
Dimensions (mm)						ISO Load ratings		Rec. max. speed	Mass (approx.)
G	A	A4	A5	B5	d4	dynamic Cr newtons	static Cor newtons	rev/min	kg
10	28.6	11.1	36.5	29.0	38.0	14000	7880	6250	1.0
10	29.8	12.7	38.0	31.0	45.0	19500	11300	5300	1.3
12	31.4	12.7	40.5	35.0	52.0	25700	15300	4500	1.7
12	34.9	12.7	45.0	36.0	58.0	32500	19900	4000	2.2
16	35.3	14.3	46.5	39.0	65.0	32500	20500	3700	2.6
16	39.7	14.3	52.0	42.0	70.0	35000	23200	3400	2.8
16	43.7	17.5	55.5	45.0	75.0	43500	29200	3100	4.0

Self-Lube® cast iron flange bearing units
SFT Series

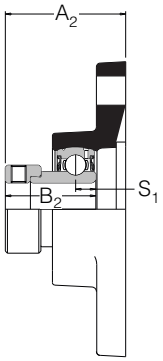




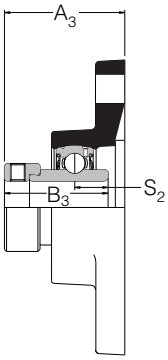
SFT



SFT-A



SFT-EC



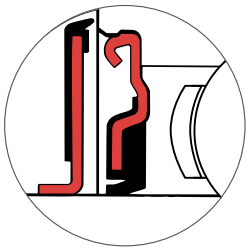
SFT-DEC

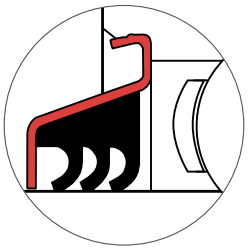
Shaft diameter		RHP designation				Basic bearing insert	Casting group	Dimensions (mm)					
mm	inches							L	H	J	G	A	A1
12		SFT12		SFT12EC		1017	1	52.5	98.5	76.50	10	24.6	32.87
15		SFT15		SFT15EC									
16		SFT16		SFT16EC									
17		SFT17		SFT17A									
	½	SFT½		SFT½EC									
	⅝	SFT⅝		SFT⅝EC									
20		SFT20	SFT20A	SFT20EC	SFT20DEC	1020	2	60.3	111.9	90.00	10	27.8	37.26
	¾	SFT¾	SFT¾A	SFT¾EC	SFT¾DEC								
25		SFT25	SFT25A	SFT25EC	SFT25DEC	1025	3	70.0	125.5	99.00	10	28.6	38.84
	⅞	SFT⅞		SFT⅞EC	SFT⅞DEC								
	15/16	SFT15/16		SFT15/16EC	SFT15/16DEC								
	1	SFT1	SFT1A	SFT1EC	SFT1DEC								
30		SFT30	SFT30A	SFT30EC	SFT30DEC	1030	4	82.6	141.3	116.50	10	29.8	42.21
	1⅛	SFT1⅛		SFT1⅛EC	SFT1⅛DEC								
	1 3/16	SFT1 3/16		SFT1 3/16EC	SFT1 3/16DEC								
	1¼	SFT1¼R	SFT1¼AR	SFT1¼ECR	SFT1¼DECR								
35		SFT35	SFT35A	SFT35EC	SFT35DEC	1035	5	95.5	155.5	130.00	12	32.0	46.41
	1¼	SFT1¼	SFT1¼A	SFT1¼EC	SFT1¼DEC								
	1⅜	SFT1⅜		SFT1⅜EC	SFT1⅜DEC								
	1 7/16	SFT1 7/16		SFT1 7/16EC	SFT1 7/16DEC								
40		SFT40	SFT40A	SFT40EC	SFT40DEC	1040	6	101.6	171.4	143.50	12	34.9	54.18
	1½	SFT1½	SFT1½A	SFT1½EC	SFT1½DEC								
45		SFT45	SFT45A	SFT45EC	SFT45DEC	1045	7	111.1	179.4	148.50	16	35.3	54.18
	1⅝	SFT1⅝		SFT1⅝EC	SFT1⅝DEC								
	1 11/16	SFT1 11/16		SFT1 11/16EC	SFT1 11/16DEC								
	1¾	SFT1¾	SFT1¾A	SFT1¾EC	SFT1¾DEC								
50		SFT50	SFT50A	SFT50EC	SFT50DEC	1050	8	115.9	188.9	157.00	16	39.7	60.53
	1⅞	SFT1⅞		SFT1⅞EC	SFT1⅞DEC								
	1 15/16	SFT1 15/16		SFT1 15/16EC	SFT1 15/16DEC								
	2	SFT2R											
55		SFT55			SFT55DEC	1055	9	127.0	215.9	184.00	16	43.7	64.31
	2	SFT2			SFT2DEC								
	2⅛	SFT2⅛			SFT2⅛DEC								
	2 3/16	SFT2 3/16			SFT2 3/16DEC								
60		SFT60			SFT60DEC	1060	10	138.1	235.0	202.00	16	47.6	73.69
	2¼	SFT2¼			SFT2¼DEC								
	2⅜	SFT2⅜			SFT2⅜DEC								
	2 7/16	SFT2 7/16			SFT2 7/16DEC								

Please check availability

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. SFT25FS.

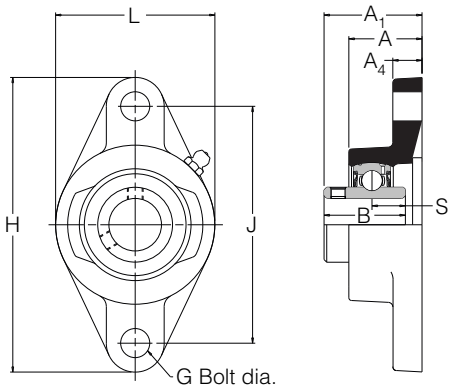
Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSFT25.





Dimensions (mm)										ISO Load ratings		Rec. max. speed	Mass (approx.)
A2	A3	A4	B	B1	B2	B3	s	s1	s2	dynamic Cr newtons	static Cor newtons	rev/min	kg
39.01	–	9.5	27.38	–	28.63	–	11.58	6.53	–	9550	4800	7000	0.4
42.42	45.54	11.1	31.00	25.80	31.03	43.73	12.73	7.53	17.13	12800	6650	6700	0.6
42.42	45.95	11.1	34.10	27.30	31.03	44.43	14.33	7.53	17.53	14000	7880	6520	0.9
46.66	50.09	12.7	38.10	31.20	35.73	48.43	15.93	9.03	18.33	19500	11300	5300	1.1
50.34	53.34	12.7	42.90	34.90	38.93	51.13	17.53	9.53	18.83	25700	15300	4500	1.4
56.62	58.90	12.7	49.20	41.20	43.73	56.33	19.03	11.03	21.43	32500	19900	4000	1.9
56.62	58.90	14.3	49.20	41.20	43.73	56.33	19.04	11.03	21.43	32500	20500	3700	2.2
60.60	66.07	14.3	51.60	43.50	43.73	62.73	19.04	11.04	24.64	35000	23200	3400	2.5
–	74.57	17.5	55.60	–	–	71.42	22.24	–	27.84	43500	29200	3100	3.5
–	80.77	17.5	65.10	–	–	77.84	25.44	–	31.04	48000	33000	2800	4.3

Self-Lube® cast iron flange bearing units
MSFT Series



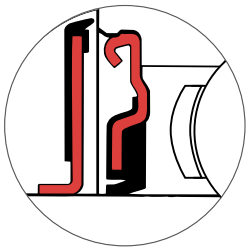
MSFT

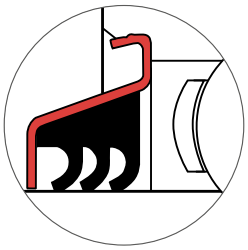
Shaft diameter		RHP designation	Basic bearing insert	Casting group	Dimensions (mm)		
mm	inches				L	H	J
25		**MSFT25**	1030	1	82.6	141.3	116.50
	1	**MSFT1**					
30		**MSFT30**	1035	2	95.5	155.5	130.00
	1 3/16	**MSFT1 3/16**					
	1 1/4	**MSFT1 1/4**					
35		**MSFT35**	1040	3	101.6	171.4	143.50
	1 3/8	**MSFT1 3/8**					
	1 7/16	**MSFT1 7/16**					
40		**MSFT40**	1045	4	111.1	179.4	148.50
	1 1/2	**MSFT1 1/2**					
45		**MSFT45**	1050	5	115.9	188.9	157.00
	1 11/16	**MSFT1 11/16**					
	1 3/4	**MSFT1 3/4**					
50		**MSFT50**	1055	6	127.0	215.9	184.00
	1 7/8	**MSFT1 7/8**					
	1 15/16	**MSFT1 15/16**					
	2	**MSFT2**					
55		**MSFT55**	1060	7	138.1	235.0	202.00
	2 3/16	**MSFT2 3/16**					

Please check availability

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. MSFT40FS.

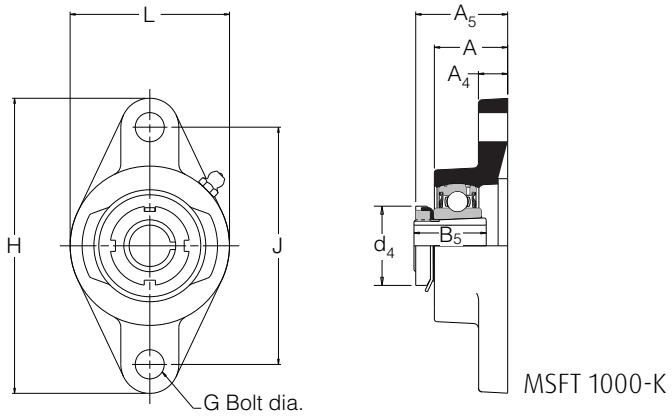
Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TMSFT40.





Dimensions (mm)						ISO Load ratings		Rec. max. speed	Mass (approx.)
G	A	A1	A4	B	s	dynamic Cr newtons	static Cor newtons	rev/min	kg
10	29.8	42.21	12.7	38.10	15.93	19500	11300	5300	1.1
12	32.0	46.41	12.7	42.90	17.53	25700	15300	4500	1.4
12	34.9	54.18	12.7	49.20	19.03	32500	19900	4000	1.9
16	35.3	54.18	14.3	49.20	19.04	32500	20500	3700	2.2
16	39.7	60.53	14.3	51.60	19.04	35000	23200	3400	2.5
16	43.7	64.31	17.5	55.60	22.24	43500	29200	3100	3.5
16	47.6	73.69	17.5	65.10	25.44	48000	33000	2800	4.3

Self-Lube® cast iron flange bearing units with adapter sleeves
MSFT 1000-K Series



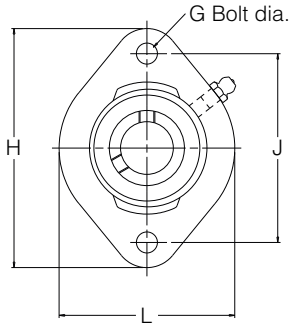
MSFT 1000-K

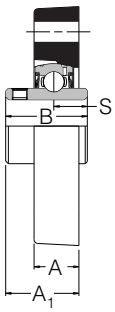
Shaft diameter		RHP designation complete unit	Sleeve nut & lockwasher only	Unit without sleeve, nut & lockwasher	Basic bearing insert	Casting group	Dimensions (mm)		
mm	inches						L	H	J
20		**MSFT1025-20K**	**H305**	**MSFT1025K**	1025	SFT3	68.3	123.8	99.0
	¾	**MSFT1025-¾K**	**HE305-¾**						
25		**MSFT1030-25K**	**H306**	**MSFT1030K**	1030	1	82.6	141.3	116.5
	15/16	**MSFT1030-15/16K**	**HE306-15/16**						
	1	**MSFT1030-1K**	**HE306-1**						
30		**MSFT1035-30K**	**H307**	**MSFT1035K**	1035	2	95.5	155.5	130.0
	1⅛	**MSFT1035-1⅛K**	**HE307-1⅛**						
	1 3/16	**MSFT1035-1 3/16K**	**HE307-1 3/16**						
35		**MSFT1040-35K**	**H308**	**MSFT1040K**	1040	3	101.6	171.4	143.5
	1¼	**MSFT1040-1¼K**	**HE308-1¼**						
	1⅜	**MSFT1040-1⅜K**	**HE308-1⅜**						
40		**MSFT1045-40K**	**H309**	**MSFT1045K**	1045	4	111.1	179.4	148.5
	1 7/16	**MSFT1045-1 7/16K**	**HE309-1 7/16**						
	1½	**MSFT1045-1½K**	**HE309-1½**						
45		**MSFT1050-45K**	**H310**	**MSFT1050K**	1050	5	115.9	188.9	157.0
	1 11/16	**MSFT1050-1 11/16K**	**HE310-1 11/16**						
	1¾	**MSFT1050-1¾K**	**HE310-1¾**						
50		**MSFT1055-50K**	**H311**	**MSFT1055K**	1055	6	127.0	215.9	184.0
	1 15/16	**MSFT1055-1 15/16K**	**HE311-1 15/16**						
	2	**MSFT1055-2K**	**HE311-2**						

Please check availability

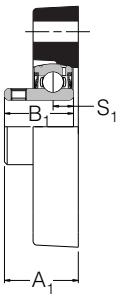
Dimensions (mm)						ISO Load ratings		Rec. max. speed	Mass (approx.)
G	A	A4	A5	B5	d4	dynamic Cr newtons	static Cor newtons	rev/min	kg
10	28.6	11.1	36.5	29.0	38.0	14000	7880	6250	0.9
10	29.8	12.7	38.0	31.0	45.0	19500	11300	5300	1.1
12	32.0	12.7	40.5	35.0	52.0	25700	15300	4500	1.4
12	34.9	12.7	45.0	36.0	58.0	32500	19900	4000	1.9
16	35.3	14.3	46.5	39.0	65.0	32500	20500	3700	2.2
16	39.7	14.3	52.0	42.0	70.0	35000	23200	3400	2.5
16	43.7	17.5	55.5	45.0	75.0	43500	29200	3100	3.5

Self-Lube® cast iron flange bearing units
LFTC Series

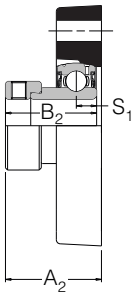




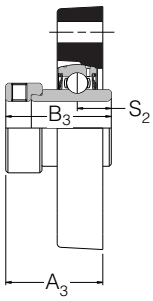
LFTC



LFTC-A



LFTC-EC



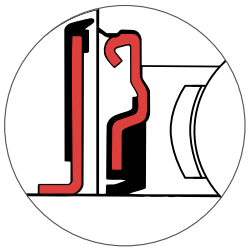
LFTC-DEC

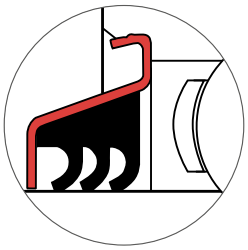
Shaft diameter		RHP designation				Basic bearing insert	Casting group	Dimensions (mm)				
mm	inches							L	H	J	G	A
12		**LFTC12**		**LFTC12EC**		1017	1	58.5	81.0	63.5	6.0	15.0
15		**LFTC15**		**LFTC15EC**								
16		**LFTC16**		**LFTC16EC**								
17		**LFTC17**		**LFTC17EC**								
	½	**LFTC½**		**LFTC½EC**								
	⅝	**LFTC⅝**		**LFTC⅝EC**								
20		**LFTC20**	**LFTC20A**	**LFTC20EC**	**LFTC20DEC**	1020	2	66.5	90.5	71.5	8.0	17.0
	¾	**LFTC¾**	**LFTC¾A**	**LFTC¾EC**	**LFTC¾DEC**							
25		**LFTC25**	**LFTC25A**	**LFTC25EC**	**LFTC25DEC**	1025	3	71.0	96.0	76.0	8.0	17.5
	⅞	**LFTC⅞**		**LFTC⅞EC**	**LFTC⅞DEC**							
	15/16	**LFTC15/16**		**LFTC15/16EC**	**LFTC15/16DEC**							
	1	**LFTC1**	**LFTC1A**	**LFTC1EC**	**LFTC1DEC**							
30		**LFTC30**	**LFTC30A**	**LFTC30EC**	**LFTC30DEC**	1030	4	84.0	112.0	90.5	10.0	20.5
	1⅛	**LFTC1⅛**		**LFTC1⅛EC**	**LFTC1⅛DEC**							
	1 3/16	**LFTC1 3/16**		**LFTC1 3/16EC**	**LFTC1 3/16DEC**							
	1¼	**LFTC1¼**	**LFTC1¼A**	**LFTC1¼EC**	**LFTC1¼DEC**							
35		**LFTC35**	**LFTC 35A**	**LFTC35EC**	**LFTC35DEC**	1035	5	93.0	125.0	100.0	10.0	22.0
	1¼	**LFTC1¼L**	**LFTC1¼AL**	**LFTC1¼ECL**	**LFTC1¼DECL**							
	1⅜	**LFTC1⅜**		**LFTC1⅜EC**	**LFTC1⅜DEC**							
	1 7/16	**LFTC1 7/16**		**LFTC1 7/16EC**	**LFTC1 7/16DEC**							

Please check availability

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. LFTC ⅞ FS.

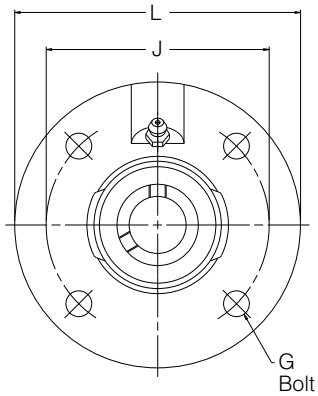
Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TLFTC ⅞.

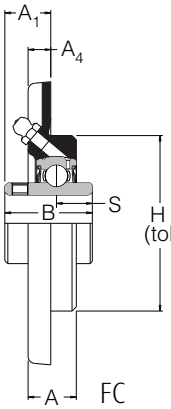




Dimensions (mm)										ISO Load ratings		Rec. max. speed	Mass (approx.)
A1	A2	A3	B	B1	B2	B3	s	s1	s2	dynamic Cr newtons	static Cor newtons	rev/min	kg
24.27	30.43	–	27.38	–	28.63	–	11.58	6.53	–	9550	4800	7000	0.3
27.76	32.92	36.04	31.00	25.80	31.03	43.73	12.73	7.53	17.13	12800	6650	6700	0.4
29.24	32.82	36.35	34.00	27.30	31.03	44.43	14.33	7.53	17.53	14000	7880	6250	0.5
33.62	38.07	41.50	38.10	31.20	35.73	48.43	15.93	9.03	18.33	19500	11300	5300	0.8
37.80	41.74	44.71	42.90	34.90	38.93	51.13	17.53	9.53	18.83	25700	15300	4500	1.1

Self-Lube® cast iron flange bearing units
FC Series

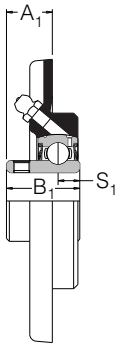




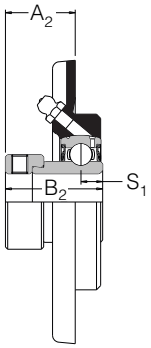
FC

For housing tolerances to suit spigot 'H' see page 19

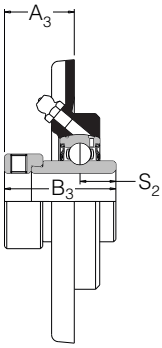
Note:
Relubrication hole - M5 x 0.8 pitch



FC-A



FC-EC



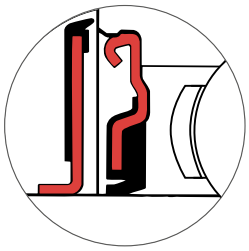
FC-DEC

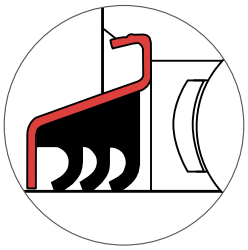
Shaft diameter		RHP designation				Basic bearing insert	Casting group	Dimensions (mm)					
mm	inches							L	H	J	G	A	A1
20		**FC20**	**FC20A**	**FC20EC**	**FC20DEC**	1020	2	100.0	62.0	78.0	8	17.0	16.29
	¾	**FC¾**	**FC¾A**	**FC¾EC**	**FC¾DEC**								
25		**FC25**	**FC25A**	**FC25EC**	**FC25DEC**	1025	3	115.0	70.0	90.0	8	19.0	17.34
	⅞	**FC⅞**		**FC⅞EC**	**FC⅞DEC**								
	15/16	**FC15/16**		**FC15/16EC**	**FC15/16DEC**								
	1	**FC1**	**FC1A**	**FC1EC**	**FC1DEC**								
30		**FC30**	**FC30A**	**FC30EC**	**FC30DEC**	1030	4	125.0	80.0	100.0	10	20.5	20.22
	1⅛	**FC1⅛**		**FC1⅛C**	**FC1⅛DEC**								
	13/16	**FC13/16**		**FC13/16EC**	**FC13/16DEC**								
	1¼	**FC1¼R**	**FC1¼AR**	**FC1¼ECR**	**FC1¼DECR**								
35		**FC35**	**FC35A**	**FC35EC**	**FC35DEC**	1035	5	135.0	90.0	110.0	10	20.5	24.40
	1¼	**FC1¼**	**FC1¼A**	**FC1¼EC**	**FC1¼DEC**								
	1⅜	**FC1⅜**		**FC1⅜EC**	**FC1⅜DEC**								
	17/16	**FC17/16**		**FC17/16EC**	**FC17/16DEC**								
40		**FC40**	**FC40A**	**FC40EC**	**FC40DEC**	1040	6	145.0	100.0	120.0	10	23.0	29.18
	1½	**FC1½**	**FC1½A**	**FC1½EC**	**FC1½DEC**								
45		**FC45**	**FC45A**	**FC45EC**	**FC45DEC**	1045	7	155.0	105.0	130.0	12	25.0	28.18
	1⅝	**FC1⅝**		**FC1⅝EC**	**FC1⅝DEC**								
	111/16	**FC111/16**		**FC111/16EC**	**FC111/16DEC**								
	1¾	**FC1¾**	**FC1¾A**	**FC1¾EC**	**FC1¾DEC**								
50		**FC50**	**FC50A**	**FC50EC**	**FC50DEC**	1050	8	165.0	110.0	135.0	12	25.0	31.52
	1⅞	**FC1⅞**		**FC1⅞EC**	**FC1⅞DEC**								
	115/16	**FC115/16**		**FC115/16EC**	**FC115/16DEC**								
	2	**FC2R**											
55		**FC55**			**FC55DEC**	1055	9	185.0	125.0	150.0	16	27.5	33.30
	2	**FC2**			**FC2DEC**								
	2⅛	**FC2⅛**			**FC2⅛DEC**								
	23/16	**FC23/16**			**FC23/16DEC**								
60		**FC60**			**FC60DEC**	1060	10	195.0	135.0	160.0	16	29.0	38.65
	2¼	**FC2¼**			**FC2¼DEC**								
	2⅜	**FC2⅜**			**FC2⅜DEC**								
	27/16	**FC27/16**			**FC27/16DEC**								

Please check availability

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. FC40FS.

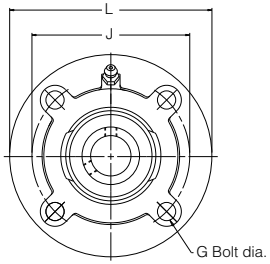
Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TFC40.

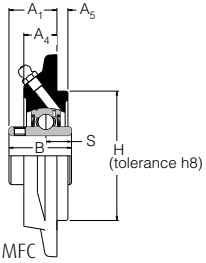




Dimensions (mm)										ISO Load ratings		Rec. max. speed	Mass (approx.)
A2	A3	A4	B	B1	B2	B3	s	s1	s2	dynamic Cr newtons	static Cor newtons	rev/min	kg
21.45	24.57	8.00	31.00	25.80	31.03	43.73	12.73	7.53	17.13	12800	6650	6700	0.7
20.86	24.41	9.00	34.10	27.30	31.03	44.43	14.33	7.53	17.53	14000	7880	6250	0.9
24.64	28.10	9.50	38.10	31.20	35.73	48.43	15.93	9.03	18.33	19500	11300	5300	1.1
28.33	31.29	10.00	42.90	34.90	38.93	51.13	17.53	9.53	18.83	25700	15300	4500	1.5
31.59	33.88	11.50	49.20	41.20	43.73	56.33	19.03	11.03	21.43	32500	19900	4000	1.8
30.59	32.88	12.00	49.20	41.20	43.73	56.33	19.04	11.03	21.43	32500	20500	3700	2.2
31.63	37.14	13.00	51.60	43.50	43.73	62.73	19.04	11.04	24.64	35000	23200	3400	2.8
–	43.72	15.00	55.60	–	–	71.42	22.24	–	27.84	43500	29200	3100	4.0
–	45.89	16.00	65.10	–	–	77.84	25.44	–	31.04	48000	33000	2800	4.7

Self-Lube® cast iron flange cartridge bearing units
MFC Series





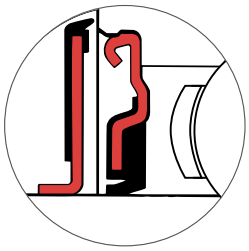
For housing tolerances to suit spigot 'H' see page 19

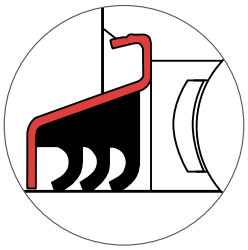
Shaft diameter		RHP designation	Basic bearing insert	Casting group	Dimensions (mm)		
mm	inches				L	H	J
25		**MFC25**	1030	1	111.1	76.2	92.1
	1	**MFC1**					
	1¼	**MFC1¼R**					
30		**MFC30**	1035	2	127.0	85.7	104.8
	1³⁄₁₆	**MFC1³⁄₁₆**					
	1¼	**MFC1¼**					
35		**MFC35**	1040	3	133.4	92.1	111.1
40		**MFC40**					
	1⅜	**MFC1⅜**					
	1⁷⁄₁₆	**MFC1⁷⁄₁₆**					
	1½	**MFC1½**					
45		**MFC45**	1050	4	155.6	108.0	130.2
	1¹¹⁄₁₆	**MFC1¹¹⁄₁₆**					
	1¾	**MFC1¾**					
	2	**MFC2R**					
50		**MFC50**	1055	5	161.9	114.3	136.5
	1⅞	**MFC1⅞**					
	1¹⁵⁄₁₆	**MFC1¹⁵⁄₁₆**					
	2	**MFC2**					
55		**MFC55**	1060	6	181.0	127.0	152.4
	2³⁄₁₆	**MFC2³⁄₁₆**					
	2¼	**MFC2¼**					
60		**MFC60**	1070	7	193.7	139.7	165.1
65		**MFC65R**					
	2⁷⁄₁₆	**MFC2⁷⁄₁₆**					
	2½	**MFC2½**					
65		**MFC65**	1075	8	222.2	161.9	190.5
70		**MFC70**					
	2¹¹⁄₁₆	**MFC2¹¹⁄₁₆**					
	2¾	**MFC2¾**					
75		**MFC75**	1080	9	222.2	161.9	190.5
80		**MFC80**					
	2¹⁵⁄₁₆	**MFC2¹⁵⁄₁₆**					
	3	**MFC3**					
	3¼	**MFC3¼**					
85		**MFC85**	1090	10	260.4	187.3	219.1
90		**MFC90**					
	3⁷⁄₁₆	**MFC3⁷⁄₁₆**					
	3½	**MFC3½**					
95		**MFC95**	3095	11	298.4	228.6	260.4
100		**MFC100**					
	3¹⁵⁄₁₆	**MFC3¹⁵⁄₁₆**					
	4	**MFC4**					

Please check availability

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. MFC30FS.

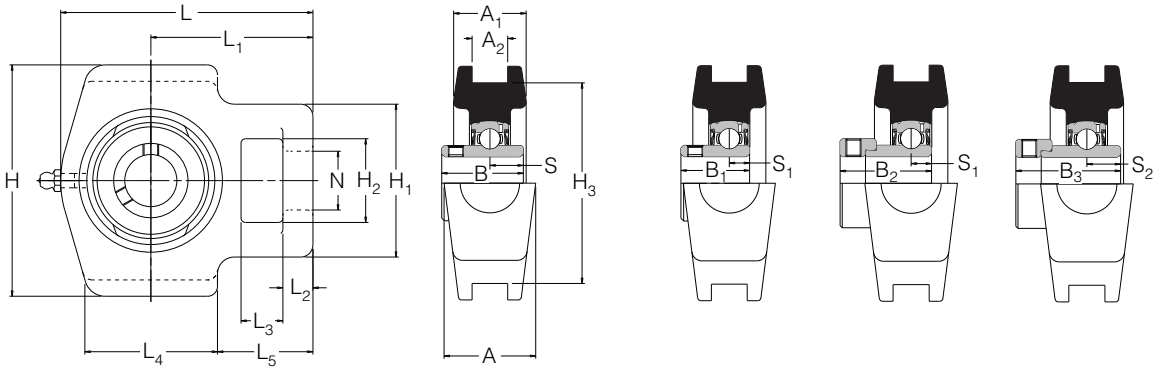
Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TMFC30.





Dimensions (mm)						ISO Load ratings		Rec. max. speed	Mass (approx.)
G	A1	A4	A5	B	s	dynamic Cr newtons	static Cor newtons	rev/min	kg
8	33.32	21.0	6.4	38.10	15.93	19500	11300	5300	1.4
10	33.32	19.0	6.4	42.90	17.53	25700	15300	4500	1.5
10	38.10	19.0	6.4	49.20	19.03	32500	19900	4000	1.9
10	39.67	19.0	6.4	51.60	19.04	35000	23200	3400	2.7
10	39. 67	19.0	6.4	55.60	22.24	43500	29200	3100	3.0
12	42.85	15.9	9.5	65.10	25.44	48000	33000	2800	3.4
12	46.02	15.9	12.7	74.60	30.24	61000	45000	2450	4.5
16	50.80	21.0	12.7	77.80	33.34	66000	49500	2300	5.9
16	50.80	16.7	12.7	82.60	33.34	71500	54500	2150	5.4
20	67.46	29.4	12.7	96.00	39.74	96000	71500	1900	9.8
20	88.90	46.0	12.7	117.48	49.31	157000	122000	1600	17.7

Self-Lube® cast iron take-up bearing units
ST Series



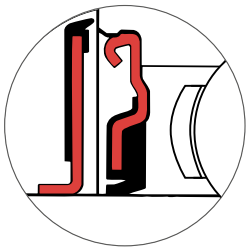
ST ST-A ST-EC ST-DEC

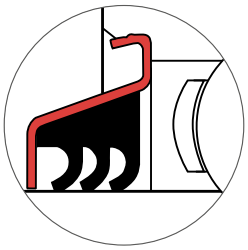
Shaft diameter mm	Shaft diameter inches	RHP designation				Basic bearing insert	Casting group	Dimensions (mm) L	L1	L2	L3	L4	L5	H
20		ST20	ST20A	ST20EC	ST20DEC	1020	2	95.5	62.0	11.5	16.0	50.5	36.5	88.5
	¾	ST¾	ST¾A	ST¾EC	ST¾DEC									
25		ST25	ST25A	ST25EC	ST25DEC	1025	3	98.0	62.0	11.5	16.0	50.5	36.5	88.5
	⅞	ST⅞		ST⅞EC	ST⅞DEC									
	15⁄16	ST15⁄16		ST15⁄16EC	ST15⁄16DEC									
	1	ST1	ST1A	ST1EC	ST1DEC									
30		ST30	ST30A	ST30EC	ST30DEC	1030	4	115.5	72.5	12.5	16.5	64.5	43.0	101.5
	1⅛	ST1⅛		ST1⅛EC	ST1⅛DEC									
	13⁄16	ST13⁄16		ST13⁄16EC	ST13⁄16DEC									
	1¼	ST1¼R	ST1¼AR	ST1¼ECR	ST1¼DECR									
35		ST35	ST35A	ST35EC	ST35DEC	1035	5	124.0	75.5	12.5	16.5	64.5	43.0	101.5
	1¼	ST1¼	ST1¼A	ST1¼EC	ST1¼DEC									
	1⅜	ST1⅜		ST1⅜EC	ST1⅜DEC									
	17⁄16	ST17⁄16		ST17⁄16EC	ST17⁄16DEC									
40		ST40	ST40A	ST40EC	ST40DEC	1040	6	143.5	89.2	15.5	20.5	81.5	50.5	118.0
	1½	ST1½	ST1½A	ST1½EC	ST1½DEC									
45		ST45	ST45A	ST45EC	ST45DEC	1045	7	147.0	89.2	15.5	20.5	81.5	50.5	118.0
	1⅝	ST1⅝		ST1⅝EC	ST1⅝DEC									
	111⁄16	ST111⁄16		ST111⁄16EC	ST111⁄16DEC									
	1¾	ST1¾	ST1¾	ST1¾EC	ST1¾DEC									
50		ST50	ST50	ST50EC	ST50DEC	1050	8	151.0	90.5	15.5	20.5	81.5	50.5	118.0
	1⅞	ST1⅞		ST1⅞EC	ST1⅞DEC									
	115⁄16	ST115⁄16		ST115⁄16EC	ST115⁄16DEC									
	2	ST2R												
55		ST55			ST55DEC	1055	9	182.0	114.0	19.0	32.0	97.5	70.0	146.0
	2	ST2			ST2DEC									
	2⅛	ST2⅛			ST2⅛DEC									
	23⁄16	ST23⁄16			ST23⁄16DEC									
60		ST60			ST60DEC	1060	10	192.0	119.0	19.0	32.0	97.5	70.0	146.0
	2¼	ST2¼			ST2¼DEC									
	2⅜	ST2⅜			ST2⅜DEC									
	27⁄16	ST27⁄16			ST27⁄16DEC									
65		ST65			ST65DEC	1070	11	222.5	137.5	21.5	32.0	120.5	77.0	166.5
70		ST70			ST70DEC									
	2½	ST2½			ST2½DEC									
	211⁄16	ST211⁄16			ST211⁄16DEC									
75		ST75			ST75DEC	1075	12	222.5	137.5	21.5	32.0	120.5	77.0	166.5
	2¾	ST2¾			ST2¾DEC									
	2⅞	ST2⅞			ST2⅞DEC									
	215⁄16	ST215⁄16			ST215⁄16DEC									
80		ST80				1080	13	231.5	139.5	20.5	32.0	125.0	74.0	184.0
	3	ST3												
	33⁄16	ST33⁄16												
85		ST85				1085	14	260.5	162.0	28.5	38.0	140.0	90.5	198.5
	3¼	ST3¼												
	3⅜	ST3⅜												
	37⁄16	ST37⁄16												

Please check availability

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. ST45FS.

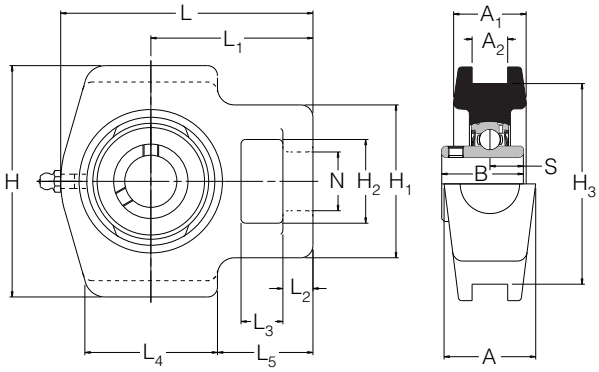
Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TST45.





Dimensions (mm)														ISO Load ratings		Rec. max. speed	Mass (approx.)
H1	H2	H3	N	A	A1	A2	B	B1	B2	B3	s	s1	s2	dynamic Cr newtons	static Cor newtons	rev/min	kg
58.5	32.0	76.0	22.5	36.0	27.5	13.50	31.00	25.80	31.03	43.73	12.73	7.53	17.13	12800	6650	6700	0.8
58.5	32.0	76.0	22.5	36.0	27.5	13.50	34.10	27.30	31.03	44.43	14.33	7.53	17.53	14000	7880	6250	1.0
64.5	37.5	89.0	22.5	36.5	30.0	13.50	38.10	31.20	35.73	48.43	15.93	9.03	18.33	19500	11300	5300	1.6
64.5	37.5	89.0	22.5	36.5	30.0	13.50	42.90	34.90	38.93	51.13	17.53	9.53	18.83	25700	15300	4500	1.6
82.5	49.5	101.0	29.0	49.5	37.0	17.50	49.20	41.20	43.73	56.33	19.03	11.03	21.43	32500	19900	4000	2.7
82.5	49.5	101.0	29.0	49.5	37.0	17.50	49.20	41.20	43.73	56.33	19.04	11.03	21.43	32500	20500	3700	2.8
82.5	49.5	101.0	29.0	49.5	37.0	17.50	51.60	43.50	43.73	62.73	19.04	11.03	24.64	35000	23200	3400	2.8
101.0	64.0	130.0	35.0	63.5	46.5	27.00	55.60	–	–	71.42	22.24	–	27.84	43500	29200	3100	4.2
101.0	64.0	130.0	35.0	63.5	46.5	27.00	65.10	–	–	77.84	25.44	–	31.04	48000	33000	2800	5.4
113.0	70.0	150.8	42.0	70.0	50.5	27.00	74.60	–	–	85.74	30.24	–	34.14	61000	45000	2450	7.9
113.0	70.0	150.8	42.0	70.0	50.5	27.00	77.80	–	–	92.14	33.34	–	37.34	66000	49500	2300	8.4
113.0	70.0	165.1	42.0	70.0	54.0	27.00	82.60	–	–	–	33.34	–	–	71500	54500	2150	9.0
124.0	73.0	173.0	47.5	79.5	68.5	46.05	85.70	–	–	–	34.15	–	–	83000	64000	2000	13.7

Self-Lube® cast iron take-up bearing units
MST Series



MST

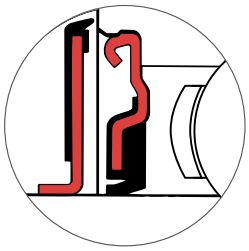
Shaft diameter		RHP designation	Basic bearing insert	Casting group	Dimensions (mm)					
mm	inches				L	L1	L2	L3	L4	L5
25		**MST25**	1030	1	115.5	72.5	12.5	16.5	64.5	43.0
	1	**MST1**								
30		**MST30**	1035	2	124.0	75.5	12.5	16.5	64.5	43.0
	1 3/16	**MST1 3/16**								
	1 1/4	**								
35		**MST35**	1040	3	143.5	89.2	15.5	20.5	81.5	50.5
	1 3/8	**MST1 3/8**								
	1 7/16	**MST1 7/16**								
40		**MST40**	1045	4	147.0	89.2	15.5	20.5	81.5	50.5
	1 1/2	**MST1 1/2**								
45		**MST45**	1050	5	151.0	90.5	15.5	20.5	81.5	50.5
	1 11/16	**MST1 11/16**								
	1 3/4	**MST1 3/4**								
50		**MST50**	1055	6	182.0	114.0	19.0	32.0	97.5	70.0
	1 7/8	**MST1 7/8**								
	1 15/16	**MST1 15/16**								
	2	**								
55		**MST55**	1060	7	192.0	119.0	19.0	32.0	97.5	70.0
	2 3/16	**MST2 3/16**								
	2 1/4	**								
60		**MST60**	1070	8	222.5	137.5	21.5	32.0	120.5	77.0
	2 7/16	**MST2 7/16**								
	2 1/2	**								
65		**MST65**	1075	9	222.5	137.5	21.5	32.0	120.5	77.0
70		**MST70**								
	2 11/16	**MST2 11/16**								
	2 3/4	**								
75		**MST75**	1080	10	231.5	139.5	20.5	32.0	125.0	74.0
	2 15/16	**MST2 15/16**								
	3	**								
80		**MST80**	1085	11	260.5	162.0	28.5	38.0	140.0	90.5
	3 3/16	**MST3 3/16**								
	3 1/4	**								
85		**MST85**	1090	12	270.0	165.0	28.5	38.0	152.5	90.0
90		**MST90**								
	3 7/16	**MST3 7/16**								
	3 1/2	**MST3 1/2**								
95		**MST95**	3095	13	317.5	190.5	32.0	38.0	175.0	103.0
100		**MST100**								
	3 15/16	**MST3 15/16**								
	4	**MST4**								

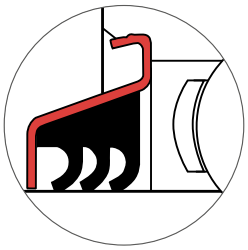
Please check availability

** For these bore sizes select from ST series (see page 54)

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. MST35FS.

Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TMST35.

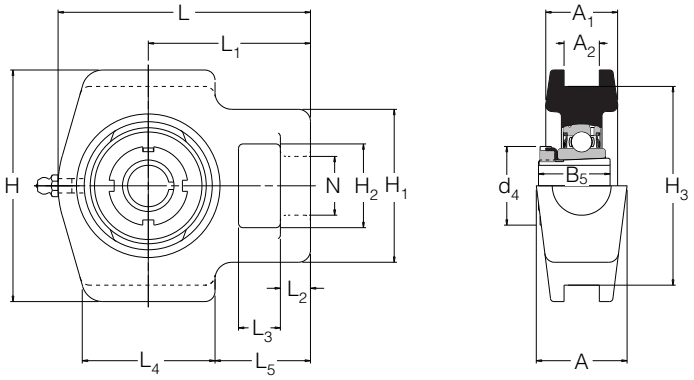




Dimensions (mm)										ISO Load ratings		Rec. max. speed	Mass (approx.)
H	H1	H2	H3	N	A	A1	A2	B	s	dynamic Cr newtons	static Cor newtons	rev/min	kg
101.5	64.5	37.5	89.0	22.5	36.5	30.0	13.50	38.10	15.93	19500	11300	5300	1.6
101.5	64.5	37.5	89.0	22.5	36.5	30.0	13.50	42.90	17.53	25700	15300	4500	1.6
118.0	82.5	49.5	101.0	29.0	49.5	37.0	17.50	49.20	19.03	32500	19900	4000	2.7
118.0	82.5	49.5	101.0	29.0	49.5	37.0	17.50	49.20	19.04	32500	20500	3700	2.8
118.0	82.5	49.5	101.0	29.0	49.5	37.0	17.50	51.60	19.04	35000	23200	3400	2.8
146.0	101.0	64.0	130.0	35.0	63.5	46.5	27.00	55.60	22.24	43500	29200	3100	4.2
146.0	101.0	64.0	130.0	35.0	63.5	46.5	27.00	65.10	25.44	48000	33000	2800	5.4
166.5	113.0	70.0	150.8	42.0	70.0	50.5	27.00	74.60	30.24	61000	45000	2450	7.9
166.5	113.0	70.0	150.8	42.0	70.0	50.5	27.00	77.80	33.34	66000	49500	2300	8.4
184.0	113.0	70.0	165.1	42.0	70.0	54.0	27.00	82.60	33.34	71500	54500	2150	9.0
198.5	124.0	73.0	173.0	47.5	79.5	68.5	46.05	85.70	34.15	83000	64000	2000	13.7
216.0	127.0	73.0	190.5	47.5	79.5	69.5	46.05	96.00	39.74	96000	71500	1900	16.8
260.5	152.5	85.5	235.0	54.5	98.5	83.0	55.55	117.48	49.31	157000	122000	1600	22.2

Self-Lube® cast iron take-up bearing units with adapter sleeves

MST 1000-K Series



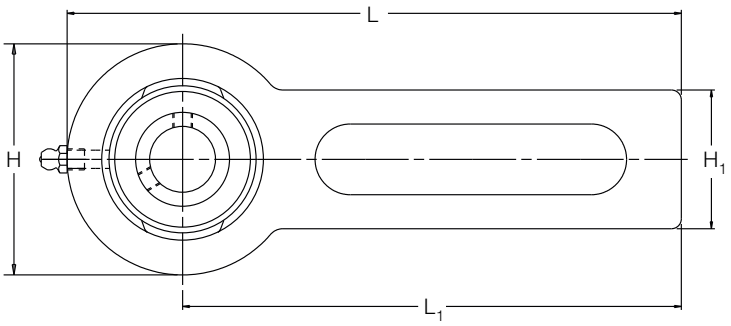
MST1000-K

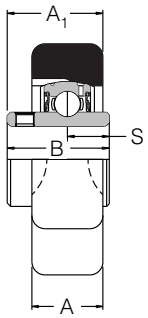
Shaft diameter		RHP designation complelete unit	Sleeve, nut & lockwasher only	Units without sleeve, nut & lockwasher	Basic bearing	Casting group insert	Dimensions (mm)					
mm	inches						L	L1	L2	L3	L4	L5
20		**MST1025-20K**	**H305**	**MST1025K**	1025	ST3	98.0	62.0	11.5	16.0	50.5	36.5
	¾	**MST1025-¾K**	**HE305-¾**									
25		**MST1030-25K**	**H306**	**MST1030K**	1030	1	115.5	71.7	12.5	16.5	64.5	43.0
	15/16	**MST1030-15/16K**	**HE306-15/16**									
	1	**MST1030-1K**	**HE306-1**									
30		**MST1035-30K**	**H307**	**MST1035K**	1035	2	124.0	75.5	12.5	16.5	64.5	43.0
	1⅛	**MST1035-1⅛K**	**HE307-1⅛**									
	1 3/16	**MST1035-1 3/16K**	**HE307-1 3/16**									
35		**MST1040-35K**	**H308**	**MST1040K**	1040	3	143.5	89.2	15.5	20.5	81.5	50.5
	1¼	**MST1040-1¼K**	**HE308-1¼**									
	1⅜	**MST1040-1⅜K**	**HE308-1⅜**									
40		**MST1045-40K**	**H309**	**MST1045K**	1045	4	147.0	89.2	15.5	20.5	81.5	50.5
	1 7/16	**MST1045-1 7/16K**	**HE309-1 7/16**									
	1½	**MST1045-1½K**	**HE309-1½**									
45		**MST1050-45K**	**H310**	**MST1050K**	1050	5	151.0	90.5	15.5	20.5	81.5	50.5
	1 11/16	**MST1050-1 11/16K**	**HE310-1 11/16**									
	1¾	**MST1050-1¾K**	**HE310-1¾**									
50		**MST1055-50K**	**H311**	**MST1055K**	1055	6	182.0	114.0	19.0	32.0	97.5	70.0
	1 15/16	**MST1055-1 15/16K**	**HE3011-1 15/16**									
	2	**MST1055-2K**	**HE3011-2**									

Please check availability

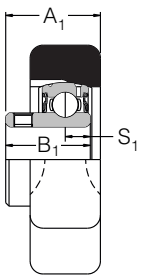
Dimensions (mm)										ISO Load ratings		Rec max. speed	Mass (approx.)
H	H1	H2	H3	N	A	A1	A2	B5	d4	dynamic CR newtons	static Cor newtons	rev/min	kg
88.5	58.5	32.0	76.0	22.5	36.0	27.5	13.50	29.0	38.0	14000	7880	6250	1.0
101.5	64.5	37.5	89.0	22.5	36.5	30.0	13.50	31.0	45.0	19500	11300	5300	1.6
101.5	64.5	37.5	89.0	22.5	36.5	30.0	13.50	35.0	52.0	25700	15300	4500	1.6
118.0	82.5	49.5	101.0	29.0	49.5	37.0	17.50	36.0	58.0	32500	19900	4000	2.7
118.0	82.5	49.5	101.0	29.0	49.5	37.0	17.50	39.0	65.0	32500	20500	3700	2.8
118.0	82.5	49.5	101.0	29.0	49.5	37.0	17.50	42.0	70.0	35000	23200	3400	2.8
146.0	101.0	64.0	130.0	35.0	63.5	46.5	27.00	45.0	75.0	43500	29200	3100	4.2

Self-Lube® cast iron conveyor belt tensioner units
BT Series

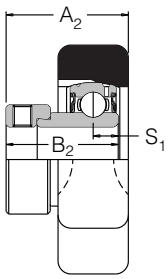




BT



BT-A



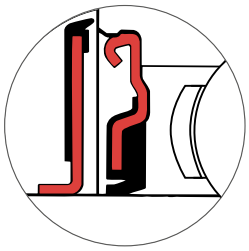
BT-EC

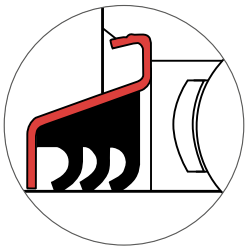
Shaft diameter		RHP designation			Basic bearing insert	Casting group	Dimensions (mm)			
mm	inches						H	H1	L	L1
25		**BT25**	**BT25A**	**BT25EC**	1025	3	78.0	42.5	264.0	225.0
	7/8	**BT7/8**		**BT7/8EC**						
	15/16	**BT15/16**		**BT15/16EC**						
	1	**BT1**	**BT1A**	**BT1EC**						
30		**BT30L**			1035	5	98.0	42.5	274.0	225.0
35		**BT35**	**BT35A**	**BT35EC**						
	1 3/16	**BT1 3/16L**								
	1 1/4	**BT1 1/4**	**BT1 1/4A**	**BT1 1/4EC**						
	1 3/8	**BT1 3/8**		**BT1 3/8EC**						
	1 7/16	**BT1 7/16**		**BT1 7/16EC**						

Please check availability

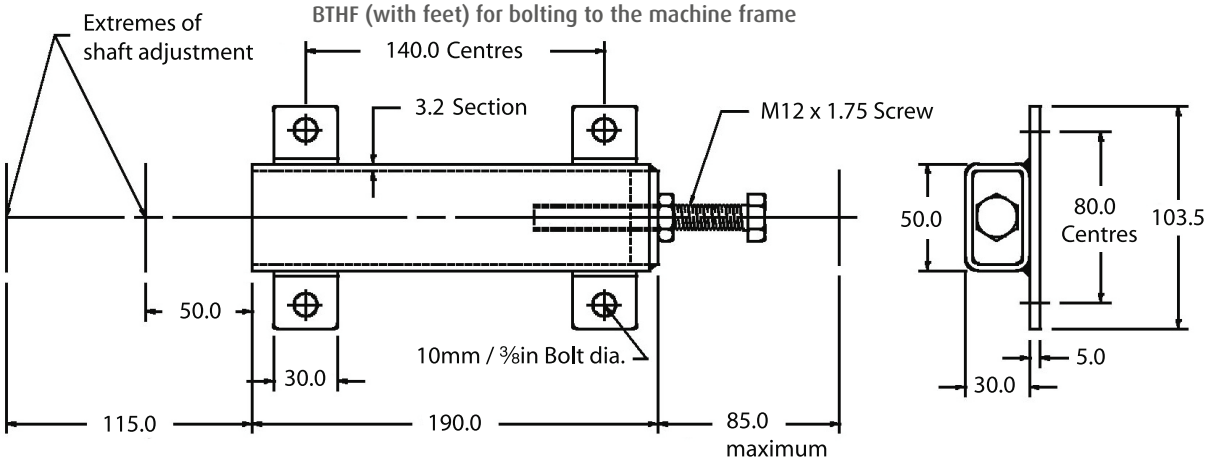
Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. BT35FS.

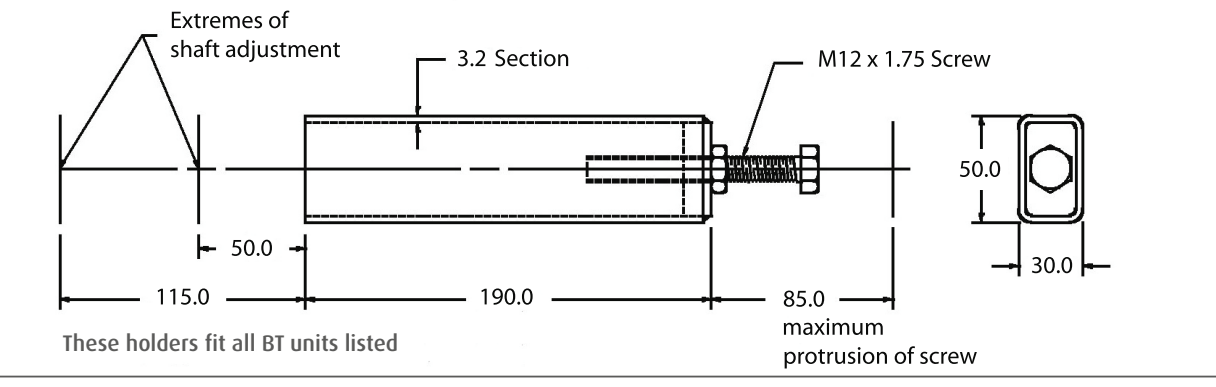
Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TBT35.



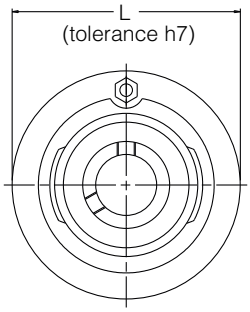


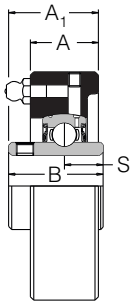
Dimensions (mm)								ISO Load ratings		Rec. max. speed	Mass (approx.)
A	A1	A2	B	B1	B2	s	s1	dynamic Cr newtons	static Cor newtons	rev/ min	kg
22.0	30.57	34.20	34.10	27.30	31.03	14.33	7.53	14000	7880	6250	1.8
22.0	36.13	40.20	42.90	34.90	38.93	17.53	9.53	25700	15300	4500	2.3





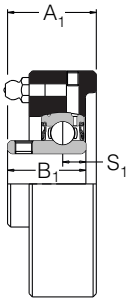
Self-Lube® cast iron cartridge bearing units
SLC Series



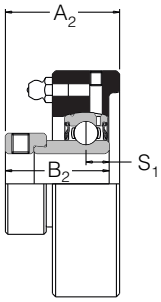


SLC

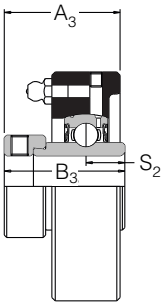
For housing tolerances to suit outside dia 'L' see page 19



SLC-A



SLC-EC



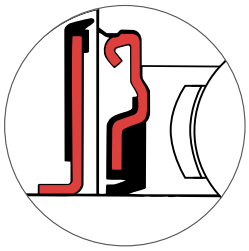
SLC-DEC

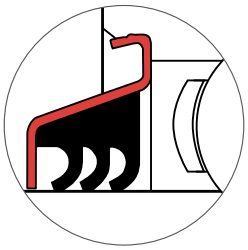
Shaft diameter		RHP designation				Basic bearing insert	Casting group	Dimensions (mm)			
mm	inches							L	A	A1	A2
12		**SLC12**		**SLC12EC**		1017	1	68.287	22.22	24.21	30.35
15		**SLC15**		**SLC15EC**							
16		**SLC16**		**SLC16EC**							
17		**SLC17**		**SLC17EC**							
	½	**SLC½**		**SLC½EC**							
	⅝	**SLC⅝**		**SLC⅝EC**							
20		**SLC20**	**SLC20A**	**SLC20EC**	**SLC20DEC**	1020	2	74.367	22.22	29.39	34.54
	¾	**SLC¾**	**SLC¾A**	**SLC¾EC**	**SLC¾DEC**						
25		**SLC25**	**SLC25A**	**SLC25EC**	**SLC25DEC**	1025	3	79.400	26.19	32.94	36.52
	⅞	**SLC⅞**		**SLC⅞EC**	**SLC⅞DEC**						
	15/16	**SLC15/16**		**SLC15/16EC**	**SLC15/16DEC**						
	1	**SLC1**	**SLC1A**	**SLC1EC**	**SLC1DEC**						
30		**SLC30**	**SLC30A**	**SLC30EC**	**SLC30DEC**	1030	4	88.925	27.78	36.12	40.56
	1⅛	**SLC1⅛**		**SLC1⅛EC**	**SLC1⅛DEC**						
	1³⁄₁₆	**SLC1³⁄₁₆**		**SLC1³⁄₁₆EC**	**SLC1³⁄₁₆DEC**						
	1¼	**SLC1¼R**	**SLC1¼AR**	**SLC1¼ECR**	**SLC1¼DECR**						
35		**SLC35**	**SLC35A**	**SLC35EC**	**SLC35DEC**	1035	5	98.450	30.96	40.87	44.81
	1¼	**SLC1¼**	**SLC1¼A**	**SLC1¼EC**	**SLC1¼DEC**						
	1⅜	**SLC1⅜**		**SLC1⅜EC**	**SLC1⅜DEC**						
	1⁷⁄₁₆	**SLC1⁷⁄₁₆**		**SLC1⁷⁄₁₆EC**	**SLC1⁷⁄₁₆DEC**						
40		**SLC40**	**SLC40A**	**SLC40EC**	**SLC40DEC**	1040	6	106.387	37.31	48.84	51.28
	1½	**SLC1½**	**SLC1½A**	**SLC1½EC**	**SLC1½DEC**						
45		**SLC45**	**SLC45A**	**SLC45EC**	**SLC45DEC**	1045	7	111.150	36.51	48.44	50.88
	1⅝	**SLC1⅝**		**SLC1⅝EC**	**SLC1⅝DEC**						
	1¹¹⁄₁₆	**SLC1¹¹⁄₁₆**		**SLC1¹¹⁄₁₆EC**	**SLC1¹¹⁄₁₆DEC**						
	1¾	**SLC1¾**	**SLC1¾A**	**SLC1¾EC**	**SLC1¾DEC**						
50		**SLC50**	**SLC50A**	**SLC50EC**	**SLC50DEC**	1050	8	115.913	37.31	51.18	51.28
	1⅞	**SLC1⅞**		**SLC1⅞EC**	**SLC1⅞DEC**						
	1¹⁵⁄₁₆	**SLC1¹⁵⁄₁₆**		**SLC1¹⁵⁄₁₆EC**	**SLC1¹⁵⁄₁₆DEC**						
	2	**SLC2R**									
55		**SLC55**			**SLC55DEC**	1055	9	125.437	40.48	53.57	–
	2	**SLC2**			**SLC2DEC**						
	2⅛	**SLC2⅛**			**SLC2⅛DEC**						
	2³⁄₁₆	**SLC2³⁄₁₆**			**SLC2³⁄₁₆DEC**						
60		**SLC60**			**SLC60DEC**	1060	10	149.250	41.28	60.30	–
	2¼	**SLC2¼**			**SLC2¼DEC**						
	2⅜	**SLC2⅜**			**SLC2⅜DEC**						
	2⁷⁄₁₆	**SLC2⁷⁄₁₆**			**SLC2⁷⁄₁₆DEC**						
65		**SLC65**				1065	10/65	149.250	41.28	60.30	–
	2½	**SLC2½**			**SLC2½DEC**						

Please check availability

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. SLC25FS.

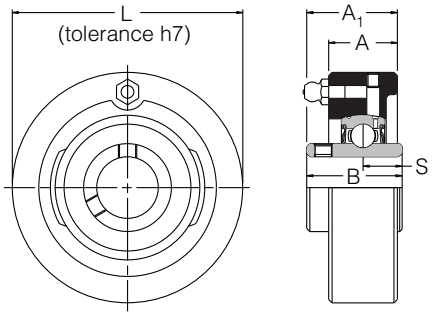
Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSLC25.





Dimensions (mm)								ISO Load ratings		Rec. max. speed	Mass (approx.)
A3	B	B1	B2	B3	s	s1	s2	dynamic Cr newtons	static Cor newtons	rev/min	kg
–	27.38	–	28.63	–	11.58	6.53	–	9550	4800	7000	0.6
37.67	31.00	25.80	31.03	43.73	12.73	7.53	17.13	12800	6650	6700	0.7
40.06	34.10	27.30	31.03	44.43	14.33	7.53	17.53	14000	7880	6250	0.8
43.99	38.10	31.20	35.73	48.43	15.93	9.03	18.33	19500	11300	5300	1.1
47.78	42.90	34.90	38.93	51.13	17.53	9.53	18.83	25700	15300	4500	1.4
53.57	49.20	41.20	43.73	56.33	19.03	11.03	21.43	32500	19900	4000	2.0
53.16	49.20	41.20	43.73	56.33	19.04	11.04	21.43	32500	20500	3700	2.1
56.72	51.60	43.50	43.73	62.73	19.04	11.04	24.64	35000	23200	3400	2.3
63.83	55.60	–	–	71.42	22.24	–	27.82	43500	29200	3100	2.9
67.39	65.10	–	–	77.84	25.44	–	31.04	48000	33000	2800	4.4
67.39	65.10	–	–	85.74	25.44	–	34.14	57500	40000	2600	4.5

Self-Lube® cast iron cartridge bearing units
MSC Series



MSC

For housing tolerances to suit outside dia 'L' see page 19

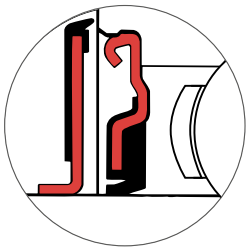
Shaft diameter mm	Shaft diameter inches	RHP designation	Basic bearing insert	Casting group	Dimensions (mm) L	Dimensions (mm) A
25		**MSC25**	1030	1	88.925	27.78
30		**				
	1	**MSC1**				
35		**	1035	2	98.450	30.96
	1 3/16	**MSC1 3/16**				
	1 1/4	**				
40		**	1040	3	106.387	37.31
	1 3/8	**MSC1 3/8**				
	1 7/16	**MSC1 7/16**				
45		**	1045	4	111.150	36.51
	1 1/2	**MSC1 1/2**				
50		**	1050	5	115.913	37.31
	1 11/16	**MSC1 11/16**				
	1 3/4	**MSC1 3/4**				
55		**	1055	6	125.437	40.48
	1 7/8	**MSC1 7/8**				
	1 15/16	**MSC1 15/16**				
	2	**				
60		**	1060	7	149.250	41.28
	2 3/16	**MSC2 3/16**				
	2 1/4	**				
65		**MSC65**	1070	8	158.775	50.80
70		**MCS70**				
	2 7/16	**MSC2 7/16**				
	2 1/2	**MSC2 1/2**				
75		**MSC75**	1075	9	168.300	50.80
	2 11/16	**MSC2 11/16**				
	2 3/4	**MSC2 3/4**				
80		**MSC80**	1080	10	177.825	55.56
	2 15/16	**MSC2 15/16**				
	3	**MSC3**				
85		**MSC85**	1085	11	188.937	63.50
	3 3/16	**MSC3 3/16**				
	3 1/4	**MSC3 1/4**				
90		**MSC90**	1090	12	207.987	63.50
	3 7/16	**MSC3 7/16**				
	3 1/2	**MSC3 1/2**				
95		**MSC95**	3095	13	241.325	76.20
100		**MSC100**				
	3 15/16	**MSC3 15/16**				
	4	**MSC4**				

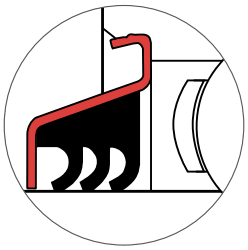
Please check availability

** For these bore sizes select from SLC Series (see page 62)

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. MSC 1 3/16 FS.

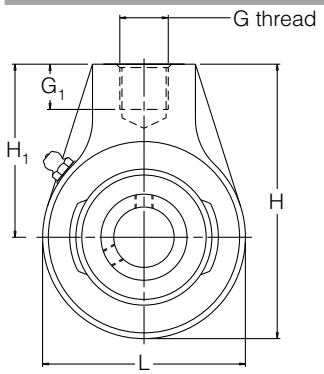
Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TMSC 1 3/16.

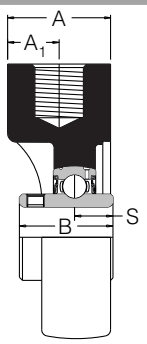




			ISO Load ratings		Rec. max. speed	Mass (approx.)
A1	B	s	dynamic Cr newtons	static Cor newtons	rev/min	kg
36.12	38.10	15.93	19500	11300	5300	1.1
40.87	42.90	17.53	25700	15300	4500	1.4
48.84	49.20	19.03	32500	19900	4000	2.0
48.44	49.20	19.04	32500	20500	3700	2.1
51.18	51.60	19.04	35000	23200	3400	2.3
53.57	55.60	22.24	43500	29200	3100	2.9
60.30	65.10	25.44	48000	33000	2800	4.4
69.80	74.60	30.24	61000	45000	2450	5.3
69.80	77.80	33.34	66000	49500	2300	6.2
76.99	82.60	33.34	71500	54500	2150	7.9
83.29	85.70	34.15	83000	64000	2000	9.3
88.06	96.00	39.74	96000	71500	1900	12.7
106.38	117.48	49.31	157000	122000	1600	20.4

Self-Lube® cast iron hanger bearing units
SCHB Series (BSP thread), SCH Series (metric thread)**





SCHB (BSP thread)
SCH (metric thread)

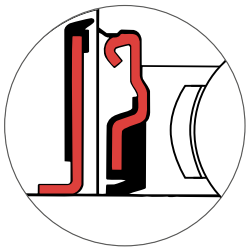
Shaft diameter		RHP designation		Basic bearing insert	Casting group	Dimensions (mm)			
mm	inches					G (BSP)	G (metric)	G1 (mm)	L
20		**SCHB20**	**SCH20**	1020	0	½	M16 x 2.00	19.0	67.0
	¾	**SCHB¾**	**SCH¾**						
25		**SCHB25**	**SCH25**	1030	2/0	½	M20 x 2.50	16.0	89.0
30		**SCHB30**	**SCH30**						
	⅞	**SCHB⅞**	**SCH⅞**						
	1	**SCHB1**	**SCH1**						
	1⅛	**SCHB1⅛**	**SCH1⅛**						
35		**SCHB35**	**SCH35**	1035	1	¾	M24 x 3.00	19.0	97.0
	1³⁄₁₆	**SCHB1³⁄₁₆**	**SCH1³⁄₁₆**						
	1¼	**SCHB1¼**	**SCH1¼**						
	1⅜	**SCHB1⅜**	**SCH1⅜**						
40		**SCHB40**	**SCH40**	1040	2	¾	M24 x 3.00	19.0	107.0
	1⁷⁄₁₆	**SCHB1⁷⁄₁₆**	**SCH1⁷⁄₁₆**						
	1½	**SCHB1½**	**SCH1½**						
45		**SCHB45**	**SCH45**	1050	3	1	M24 x 3.00	21.0	121.0
50		**SCHB50**	**SCH50**						
	1¹¹⁄₁₆	**SCHB1¹¹⁄₁₆**	**SCH1¹¹⁄₁₆**						
	1¾	**SCHB1¾**	**SCH1¾**						
	1⅞	**SCHB1⅞**	**SCH1⅞**						
	1¹⁵⁄₁₆	**SCHB1¹⁵⁄₁₆**	**SCH1¹⁵⁄₁₆**						
	2	**SCHB2**	**SCH2**						
55		**SCHB55**	**SCH55**	1060	4	1¼	M42 x 4.50	29.0	146.5
60		**SCHB60**	**SCH60**						
	2³⁄₁₆	**SCHB2³⁄₁₆**	**SCH2³⁄₁₆**						
	2¼	**SCHB2¼**	**SCH2¼**						
	2⅜	**SCHB2⅜**	**SCH2⅜**						
	2⁷⁄₁₆	**SCHB2⁷⁄₁₆**	**SCH2⁷⁄₁₆**						
	2½	**SCHB2½**	**SCH2½**	1065	4/65	1¼	M42 x 4.50	29.0	143.0
65		**SCHB65**	**SCH65**	1075	5	1½	M48 x 5.00	32.0	165.0
70		**SCHB70**	**SCH70**						
75		**SCHB75**	**SCH75**						
	2¹¹⁄₁₆	**SCHB2¹¹⁄₁₆**	**SCH2¹¹⁄₁₆**						
	2¾	**SHCB2¾**	**SHC2¾**						
	2⅞	**SCHB2⅞**	**SCH2⅞**						
	2¹⁵⁄₁₆	**SCHB2¹⁵⁄₁₆**	**SCH2¹⁵⁄₁₆**						
80		**SCHB80**	**SCH80**	1080	6	1½	M48 x 5.00	32.0	174.5
	3	**SCHB3**	**SCH3**						
	3³⁄₁₆	**SCHB3³⁄₁₆**	**SCH3³⁄₁₆**						

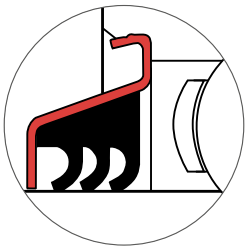
Please check availability

**These series units are identical to SCHB series except for thread details

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. SCHB35FS.

Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSCHB35.

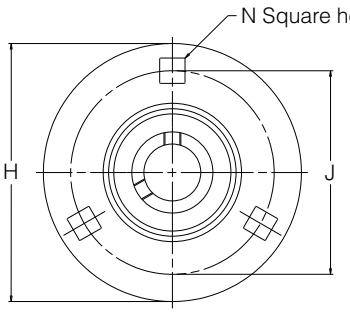




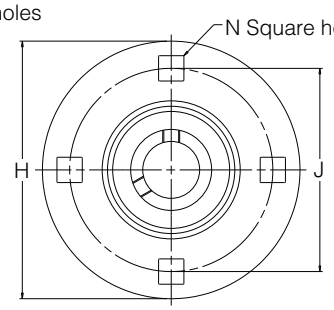
Dimensions (mm)						ISO Load ratings		Rec. max. speed	Mass (approx.)
H	H1	A	A1	B	s	dynamic Cr newtons	static Cor newtons	rev/ min	kg
91.6	57.2	34.0	18.26	30.96	12.75	12800	6650	6700	0.8
107.5	61.9	33.5	22.22	38.10	15.93	19500	11300	5300	1.2
119.0	69.8	39.5	25.40	42.88	17.53	25700	15300	4500	1.5
127.5	73.0	39.5	27.79	49.23	19.10	32500	19900	4000	1.6
144.0	82.6	47.5	27.79	51.59	19.10	35000	23200	3400	2.2
175.0	101.6	58.5	30.94	65.07	25.45	48000	33000	2800	3.5
173.5	101.6	58.5	30.94	65.07	25.45	57500	40000	2600	3.4
200.6	117.5	70.0	34.94	77.77	33.37	66000	49500	2300	6.8
211.5	123.8	71.5	41.29	82.55	33.37	71500	54500	2150	8.1

Self-Lube® pressed steel flange bearing units (zinc plated housings)

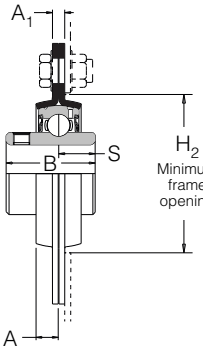
SLFE Series**



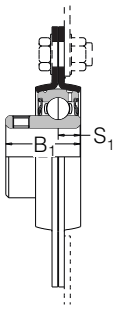
SLFE1-5



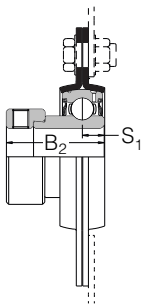
SLFE6-10



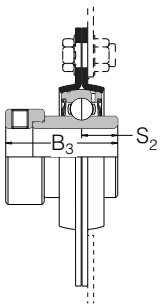
SLFE



SLFE-A



SLFE-EC



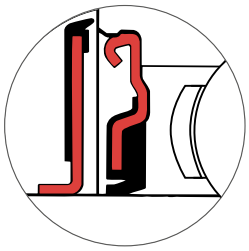
SLFE-DEC

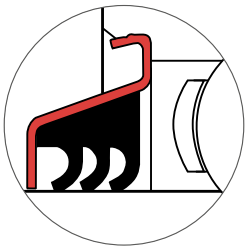
Shaft diameter		RHP designation				Basic bearing insert	Casting group	Dimensions (mm)			
mm	inches							H	H2	J	N
12		SLFE12		SLFE12EC		1017	1	81.0	49.0	63.5	7.1
15		SLFE15		SLFE15EC							
16		SLFE16		SLFE16EC							
17		SLFE17		SLFE17A							
	½	SLFE½		SLFE½EC							
	⅝	SLFE⅝		SLFE⅝EC							
20		SLFE20	SLFE20A	SLFE20EC	SLFE20DEC	1020	2	90.5	55.0	71.5	8.7
	¾	SLFE¾	SLFE¾A	SLFE¾EC	SLFE¾DEC						
25		SLFE25	SLFE25A	SLFE25EC	SLFE25DEC	1025	3	95.2	60.0	76.0	8.7
	⅞	SLFE⅞		SLFE⅞EC	SLFE⅞DEC						
	15/16	SLFE15/16		SLFE15/16EC	SLFE15/16DEC						
	1	SLFE1	SLFE1A	SLFE1EC	SLFE1DEC						
30		SLFE30	SLFE30A	SLFE30EC	SLFE30DEC	1030	4	112.7	71.0	90.5	10.5
	1⅛	SLFE1⅛		SLFE1⅛EC	SLFE1⅛DEC						
	1 3/16	SLFE1 3/16		SLFE1 3/16EC	SLFE1 3/16DEC						
	1¼	SLFE1¼	SLFE1¼A	SLFE1¼EC	SLFE1¼DEC						
35	1¼	SLFE1¼L	SLFE1¼AL	SLFE1¼ECL	SLFE1¼DECL	1035	5	122.2	81.0	100.0	10.5
	35	SLFE35	SLFE35A	SLFE35EC	SLFE35DEC						
	1⅜	SLFE1⅜		SLFE1⅜EC	SLFE1⅜DEC						
	1 7/16	SLFE1 7/16		SLFE1 7/16EC	SLFE1 7/16DEC						
40		SLFE40	SLFE40A	SLFE40EC	SLFE40DEC	1040	6	147.8	91.0	119.0	13.5
	1½	SLFE1½	SLFE1½A	SLFE1½EC	SLFE1½DEC						
45		SLFE45	SLFE45A	SLFE45EC	SLFE45DEC	1045	7	149.2	97.0	120.5	13.5
	1⅝	SLFE1⅝		SLFE1⅝EC	SLFE1⅝DEC						
	1 11/16	SLFE1 11/16		SLFE1 11/16EC	SLFE1 11/16DEC						
	1¾	SLFE1¾	SLFE1¾A	SLFE1¾EC	SLFE1¾DEC						
50		SLFE50	SLFE50A	SLFE50EC	SLFE50DEC	1050	8	155.6	102.0	127.0	13.5
	1⅞	SLFE1⅞		SLFE1⅞EC	SLFE1⅞DEC						
	1 15/16	SLFE1 15/16		SLFE1 15/16EC	SLFE1 15/16DEC						
	2	SLFE2R									
55		SLFE55			SLFE55DEC	1055	9	166.6	113.0	138.0	13.5
	2	SLFE2			SLFE2DEC						
	2⅛	SLFE2⅛			SLFE2⅛DEC						
	2 3/16	SLFE2 3/16			SLFE2 3/16DEC						
60		SLFE60			SLFE60DEC	1060	10	176.2	122.0	147.6	13.5
	2¼	SLFE2¼			SLFE2¼DEC						
	2 7/16	SLFE2 7/16			SLFE2 7/16DEC						

Please check availability
A modified version of these units is available if a Protector is to be fitted, see page 91 for details
**Housings of groups 6 to 10 inclusive have four bolt holes. Note: These units are not re-greaseable

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. SLFE25FS.

Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSLFE25.

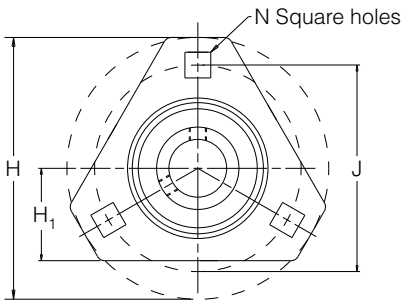


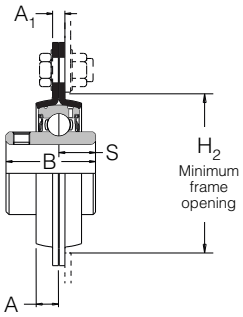


Dimensions (mm)									Max. radial housing load	Rec. max. speed	Mass (approx.)
A	A1	B	B1	B2	B3	s	s1	s2	newtons	rev/min	kg
6.7	4.0	27.38	–	28.63	–	11.58	6.53	–	2670	3000	0.2
7.7	4.0	31.00	25.80	31.03	43.73	12.73	7.53	17.13	3110	3000	0.3
8.7	4.0	34.10	27.30	31.03	44.43	14.33	7.53	17.53	3560	2500	0.4
9.0	5.0	38.10	31.20	35.73	48.43	15.93	9.03	18.33	4890	2500	0.7
10.0	5.0	42.90	34.90	38.93	51.13	17.53	9.53	18.83	6250	2000	0.9
10.0	7.0	49.20	41.20	43.73	56.33	19.03	11.03	21.43	7550	2000	1.5
10.0	7.0	49.20	41.20	43.73	56.33	19.04	11.04	21.43	7550	2000	1.6
10.5	8.0	51.60	43.50	43.73	62.73	19.04	11.04	24.64	8450	1500	1.8
10.7	8.0	55.60	–	–	71.42	22.24	–	27.84	10200	1500	2.2
11.9	8.0	65.10	–	–	77.84	25.44	–	31.04	11300	1500	2.5

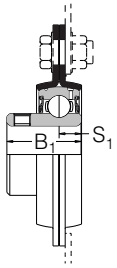
Self-Lube® pressed steel flange bearing units (zinc plated housings)

SLFT Series**

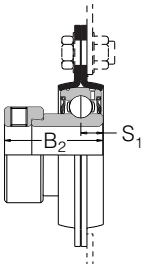




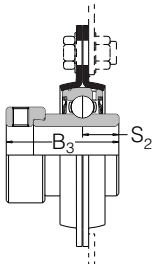
SLFT



SLFT-A



SLFT-EC



SLFT-DEC

Shaft diameter		RHP designation				Basic bearing insert	Casting group	Dimensions (mm)				
mm	inches							H	H1	H2	J	N
25		**SLFT25**	**SLFT25A**	**SLFT25EC**	**SLFT25DEC**	1025	3	95.2	34.2	60.0	76.0	8.7
	7/8	**SLFT7/8**		**SLFT7/8EC**	**SLFT7/8DEC**							
	15/16	**SLFT15/16**		**SLFT15/16EC**	**SLFT15/16DEC**							
	1	**SLFT1**	**SLFT1A**	**SLFT1EC**	**SLFT1DEC**							
30		**SLFT30**	**SLFT30A**	**SLFT30EC**	**SLFT30DEC**	1030	4	112.7	40.2	71.0	90.5	10.5
	1 1/8	**SLFT1 1/8**		**SLFT1 1/8EC**	**SLFT1 1/8DEC**							
	1 3/16	**SLFT1 3/16**		**SLFT1 3/16EC**	**SLFT1 3/16DEC**							
	1 1/4	**SLFT1 1/4**	**SLFT1 1/4A**	**SLFT1 1/4EC**	**SLFT1 1/4DEC**							
35		**SLFT35**	**SLFT35A**	**SLFT35EC**	**SLFT35DEC**	1035	5	122.2	44.2	81.0	100.0	10.5
	1 1/4	**SLFT1 1/4L**	**SLFT1 1/4AL**	**SLFT1 1/4ECL**	**SLFT1 1/4DECL**							
	1 3/8	**SLFT1 3/8**		**SLFT35EC**	**SLFT35DEC**							
	1 7/16	**SLFT1 7/16**		**SLFT1 7/16EC**	**SLFT1 7/16DEC**							

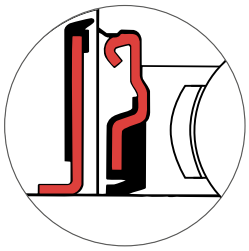
Please check availability

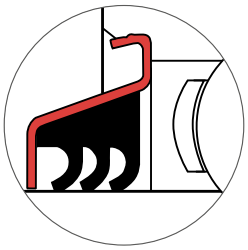
A modified version of these units is available if a Protector is to be fitted, see page 91 for details

**Note: These units are not re-greaseable

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. SLFT25FS.

Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSLFT25.

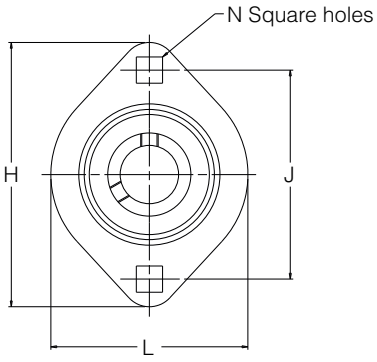


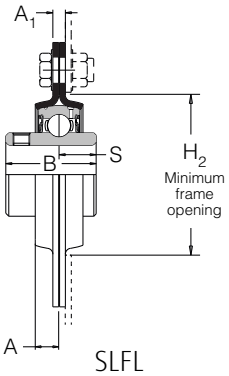


Dimensions (mm)									Max. radial housing load	Rec. max. speed	Mass (approx.)
A	A1	B	B1	B2	B3	s	s1	s2	newtons	rev/min	kg
8.7	4.0	34.11	27.35	30.92	44.40	14.33	7.56	17.49	3560	2500	0.3
9.0	5.0	38.10	31.21	35.68	48.42	15.93	9.03	18.33	4890	2500	0.5
10.0	5.0	42.88	34.90	38.88	51.18	17.53	9.55	18.89	6250	2000	0.7

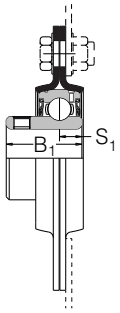
Self-Lube® pressed steel flange bearing units (zinc plated housings)

SLFL Series**

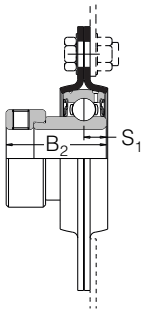




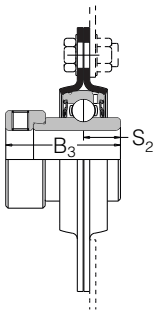
SLFL



SLFL-A



SLFL-EC



SLFL-DEC

Shaft diameter		RHP designation				Basic bearing insert	Casting group	Dimensions (mm)				
mm	inches							L	H	H2	J	N
12		SLFL12		SLFL12EC		1017	1	58.7	81.0	49.0	63.5	7.1
15		SLFL15		SLFL15EC								
16		SLFL16		SLFL16EC								
17		SLFL17		SLFL17EC								
	½	SLFL½		SLFL½EC								
	⅝	SLFL⅝		SLFL⅝EC								
20		SLFL20	SLFL20A	SLFL20EC	SLFL20DEC	1020	2	66.7	90.5	55.0	71.5	8.7
	¾	SLFL¾	SLFL¾A	SLFL¾EC	SLFL¾DEC							
25		SLFL25	SLFL25A	SLFL25EC	SLFL25DEC	1025	3	71.0	95.3	60.0	76.0	8.7
	⅞	SLFL⅞		SLFL⅞EC	SLFL⅞DEC							
	15/16	SLFL15/16		SLFL15/16EC	SLFL15/16DEC							
	1	SLFL1	SLFL1A	SLFL1EC	SLFL1DEC							
30		SLFL30	SLFL30A	SLFL30EC	SLFL30DEC	1030	4	84.1	112.7	71.0	90.5	10.5
	1⅛	SLFL1⅛		SLFL1⅛EC	SLFL1⅛DEC							
	1 3/16	SLFL1 3/16		SLFL1 3/16EC	SLFL1 3/16DEC							
	1¼	SLFL1¼	SLFL1¼A	SLFL1¼EC	SLFL1¼DEC							

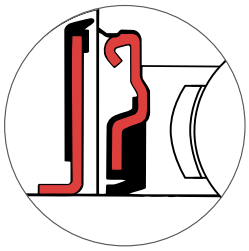
Please check availability

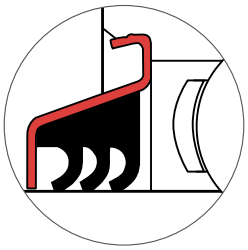
A modified version of these units is available if a Protector is to be fitted, see page 91 for details

**Note: These units are not re-greaseable

Bearing inserts with flinger seals shown on pages 89 and 90 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. SLFL1FS.

Triple seal bearing inserts shown on pages 86 to 88 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSLFL1.

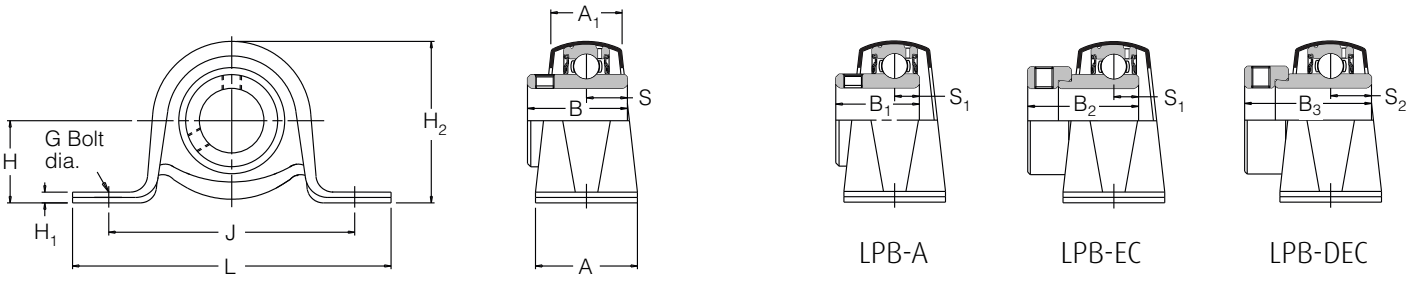




Dimensions (mm)									Max. radial housing load	Rec. max. speed	Mass (approx.)
A	A1	B	B1	B2	B3	s	s1	s2	newtons	rev/min	kg
6.7	4.0	27.38	–	28.54	–	11.55	6.55	–	2670	3000	0.2
7.7	4.0	30.96	25.77	30.92	43.62	12.73	7.56	17.13	3110	3000	0.3
8.7	4.0	34.11	27.35	30.92	44.40	14.33	7.56	17.49	3560	2500	0.3
9.0	5.0	38.10	31.21	35.68	48.42	15.93	9.04	18.32	4890	2500	0.5

Self-Lube® pressed steel pillow block units (zinc plated housings)

LPB Series**



LPB

LPB-A LPB-EC LPB-DEC

Shaft diameter		RHP designation				Basic bearing insert	Casting group	Dimensions (mm)				
mm	inches							L	H	H1	H2	J
12		**LPB12**		**LPB12EC**		1017	1	85.7	22.2	2.4	43.2	68.0
15		**LPB15**		**LPB15EC**								
16		**LPB16**		**LPB16EC**								
17		**LPB17**		**LPB17EC**								
	½	**LPB½**		**LPB½EC**								
	⅝	**LPB⅝**		**LPB⅝EC**								
20		**LPB20**	**LPB20A**	**LPB20EC**	**LPB20DEC**	1020	2	98.4	25.4	2.4	49.9	76.0
	¾	**LPB¾**	**LPB¾A**	**LPB¾EC**	**LPB¾DEC**							
25		**LPB25**	**LPB25A**	**LPB25EC**	**LPB25DEC**	1025	3	108.0	28.6	2.8	55.8	86.0
	⅞	**LPB⅞**		**LPB⅞EC**	**LPB⅞DEC**							
	15/16	**LPB15/16**		**LPB15/16EC**	**LPB15/16DEC**							
	1	**LPB1**	**LPB1A**	**LPB1EC**	**LPB1DEC**							
30		**LPB30**	**LPB30A**	**LPB30EC**	**LPB30DEC**	1030	4	117.5	33.3	3.6	65.7	95.0
	1⅛	**LPB1⅛**		**LPB1⅛EC**	**LPB1⅛DEC**							
	1 3/16	**LPB1 3/16**		**LPB1 3/16EC**	**LPB1 3/16DEC**							
	1¼	**LPB1¼**	**LPB1¼A**	**LPB1¼EC**	**LPB1¼DEC**							
35		**LPB35**	**LPB35A**	**LPB35EC**	**LPB35DEC**	1035	5	128.6	39.7	4.4	77.5	106.0
	1¼	**LPB1¼L**	**LPB1¼AL**	**LPB1¼ECL**	**LPB1¼DECL**							
	1⅜	**LPB1⅜**		**LPB1⅜EC**	**LPB1⅜DEC**							
	1 7/16	**LPB1 7/16**		**LPB1 7/16EC**	**LPB1 7/16DEC**							

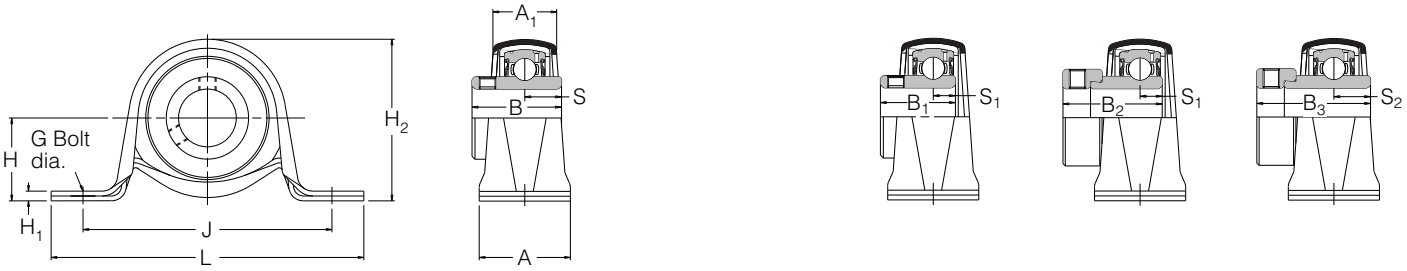
Please check availability

**Note: These units are not re-greaseable

Dimensions (mm)										Max. radial housing load	Rec. max. speed	Mass (approx.)
G	A	A1	B	B1	B2	B3	s	s1	s2	newtons	rev/min	kg
8	25.4	15.9	27.38	–	28.54	–	11.55	6.55	–	1330	3000	0.2
8	31.7	21.6	30.96	25.77	30.92	43.62	12.73	7.56	17.13	1570	3000	0.2
10	31.7	21.6	34.11	27.35	30.92	44.40	14.33	7.56	17.49	1780	2500	0.3
10	37.5	25.5	38.10	31.21	35.68	48.42	15.93	9.04	18.32	2670	2500	0.5
10	41.0	28.4	42.88	34.90	38.88	51.18	17.53	9.55	18.89	3560	2000	0.9

Self-Lube® pressed steel rubber mounted pillow block units (zinc plated housings)

LPBR Series**



LPBR LPBR-A LPBR-EC LPBR-DEC

Shaft diameter		RHP designation				Basic bearing insert	Casting group	Dimensions (mm)				
mm	inches							L	H	H1	H2	J
12		LPBR12		LPBR12EC		1017	2	98.4	25.4	2.4	49.9	76.0
15		LPBR15		LPBR15EC								
16		LPBR16		LPBR16EC								
17		LPBR17		LPBR17EC								
	½	LPBR½		LPBR½EC								
	⅝	LPBR⅝		LPBR⅝EC								
20		LPBR20	LPBR20A	LPBR20EC	LPBR20DEC	1020	3	108.0	28.6	2.8	55.8	86.0
	¾	LPBR¾	LPBR¾A	LPBR¾EC	LPBR¾DEC							
25		LPBR25	LPBR25A	LPBR25EC	LPBR25DEC	1025	4	117.5	33.3	3.6	65.7	95.0
	⅞	LPBR⅞		LPBR⅞EC	LPBR⅞DEC							
	15/16	LPBR15/16		LPBR15/16EC	LPBR15/16DEC							
	1	LPBR1	LPBR1A	LPBR1EC	LPBR1DEC							
30		LPBR30	LPBR30A	LPBR30EC	LPBR30DEC	1030	5	128.6	39.7	4.4	77.5	106.0
	1⅛	LPBR1⅛		LPBR1⅛EC	LPBR1⅛DEC							
	1 3/16	LPBR3/16		LPBR1 3/16EC	LPBR1 3/16DEC							
	1¼	LPBR1¼	LPBR1¼A	LPBR1¼EC	LPBR1¼DEC							

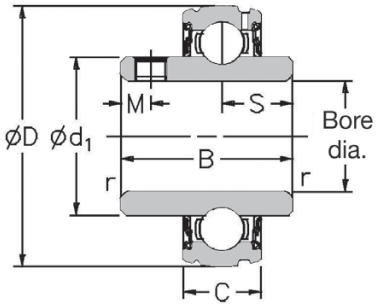
Please check availability

**Note: These units are not re-greaseable

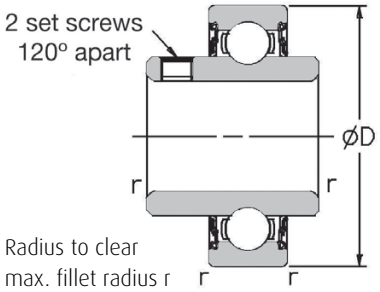
Dimensions (mm)										Max. radial housing load	Rec. max. speed	Mass (approx.)
G	A	A1	B	B1	B2	B3	s	s1	s2	newtons	rev/min	kg
8	31.7	21.6	27.38	–	28.54	–	11.55	6.55	–	890	3000	0.2
10	31.7	21.6	30.96	25.77	30.92	43.62	12.73	7.56	17.13	1110	3000	0.3
10	37.5	25.5	34.11	27.35	30.92	44.40	14.33	7.56	17.49	1330	2500	0.5
10	41.0	28.4	38.10	31.21	35.68	48.42	15.93	9.04	18.32	1560	2500	0.9

Self-Lube® bearing inserts
1000G and 1100 Series

1000G
With spherical outside diameter and integral set screw lock



1100
With parallel outside diameter and integral set screw lock



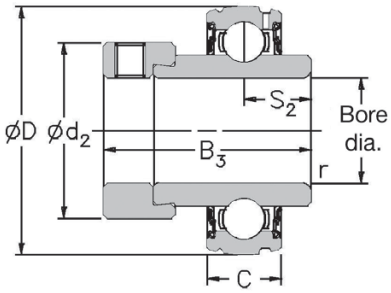
Shaft diameter mm	Shaft diameter inches	RHP designation 1000G Series	RHP designation 1100 Series	Dimensions (mm) D	C	B	s	d1	M	r	ISO Load ratings dynamic Cr newtons	ISO Load ratings static Cor newtons	Rec. max. speed rev/min	Mass (approx.) kg
12		**1017-12G**	**1117-12**	40.000	12.00	27.38	11.58	24.80	5.00	0.60	9550	4800	7000	0.09
15		**1017-15G**	**1117-15**											
16		**1017-16G**	**1117-16**											
17		**1017-17G**	**1117-17**											
	½	**1017-½G**	**1117-½**											
	⅝	**1017-⅝G**	**1117⅝**											
20		**1020-20G**	**1120-20**	47.000	14.00	31.00	12.73	28.30	5.00	1.00	12800	6650	6700	0.13
	¾	**1020-¾G**	**1120-¾**											
25		**1025-25G**	**1125-25**	52.000	15.00	34.10	14.33	34.00	5.00	1.00	14000	7880	6250	0.17
	⅞	**1025-⅞G**	**1125-⅞**											
	15/16	**1025-15/16G**	**1125-15/16**											
	1	**1025-1G**	**1125-1**											
25		**1030-25G**	**1130-25**	62.000	16.00	38.10	15.93	40.30	5.00	1.00	19500	11300	5300	0.37
30		**1030-30G**	**1130-30**											
	1	**1030-1G**	**1130-1**											
	1⅛	**1030-1⅛G**	**1130-1⅛**											
	13/16	**1030-13/16G**	**1130-13/16**											
	1¼	**1030-1¼G**	**1130-1¼**											
30		**1035-30G**	**1135-30**	72.000	17.00	42.90	17.53	46.90	6.50	1.00	25700	15300	4500	0.51
35		**1035-35G**	**1135-35**											
	13/16	**1035-13/16G**	**1135-13/16**											
	1¼	**1035-1¼G**	**1135-1¼**											
	15/16	**1035-15/16G**	**1135-15/16**											
	1⅜	**1035-1⅜G**	**1135-1⅜**											
	17/16	**1035-17/16G**	**1135-17/16**											
35		**1040-35G**	**1140-35**	80.000	18.00	49.20	19.03	52.40	8.00	1.00	32500	19900	4000	0.64
40		**1040-40G**	**1140-40**											
	1⅜	**1040-1⅜G**	**1140-1⅜**											
	17/16	**1040-17/16G**	**1140-17/16**											
	1½	**1040-1½G**	**1140-1½**											
40		**1045-40G**	**1145-40**	85.000	19.00	49.20	19.04	57.40	8.00	1.00	32500	20500	3700	0.73
45		**1045-45G**	**1145-45**											
	1½	**1045-1½G**	**1145-1½**											
	1⅝	**1045-1⅝G**	**1145-1⅝**											
	111/16	**1045-111/16G**	**1145-111/16**											
	1¾	**1045-1¾G**	**1145-1¾**											
45		**1050-45G**	**1150-45**	90.000	20.00	51.60	19.04	62.40	10.00	1.00	35000	23200	3400	0.91
50		**1050-50G**	**1150-50**											
	111/16	**1050-111/16G**	**1150-111/16**											
	1¾	**1050-1¾G**	**1150-1¾**											
	1⅞	**1050-1⅞G**	**1150-1⅞**											
	115/16	**1050-115/16G**	**1150-115/16**											
	2	**1050-2G**	**1150-2**											
50		**1055-50G**	**1155-50**	100.000	21.00	55.60	22.24	68.90	10.00	1.50	43500	29200	3100	1.12
55		**1055-55G**	**1155-55**											
	1⅞	**1055-1⅞G**	**1155-1⅞**											
	115/16	**1055-115/16G**	**1155-115/16**											
	2	**1055-2G**	**1155-2**											
	2⅛	**1055-2⅛G**	**1155-2⅛**											
	23/16	**1055-23/16G**	**1155-23/16**											

Please check availability

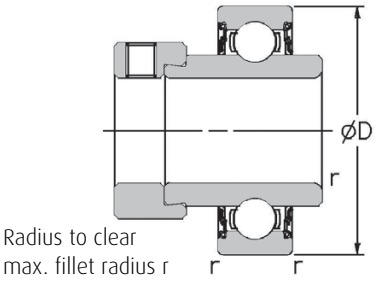
Shaft diameter		RHP designation		Dimensions (mm)							ISO Load ratings		Rec. max. speed	Mass (approx.)
mm	inches	1000G Series	1100 Series	D	C	B	s	d1	M	r	dynamic Cr newtons	static Cor newtons	rev/min	kg
55		**1060-55G**	**1160-55**	110.000	22.00	65.10	25.44	76.00	10.00	1.50	48000	33000	2800	1.47
60		**1060-60G**	**1160-60**											
	2 3/16	**1060-2 3/16G**	**1160-2 3/16**											
	2 1/4	**1060-2 1/4G**	**1160-2 1/4**											
	2 3/8	**1060-2 3/8G**	**1160-2 3/8**											
	2 7/16	**1060-2 7/16G**	**1160-2 7/16**											
60		**1065-60G**	**1165-60**	120.000	23.00	65.10	25.44	82.50	10.00	1.50	57500	40000	2600	2.02
65		**1065-65G**	**1165-65**											
	2 1/2	**1065-2 1/2G**	**1165-2 1/2**											
60		**1070-60G**	**1170-60**	125.000	24.00	74.60	30.24	89.00	12.00	1.50	61000	45000	2450	2.27
65		**1070-65G**	**1170-65**											
70		**1070-70G**	**1170-70**											
	2 7/16	**1070-2 7/16G**	**1170-2 7/16**											
	2 1/2	**1070-2 1/2G**	**1170-2 1/2**											
	2 5/8	**1070-2 5/8G**	**1170-2 5/8**											
	2 11/16	**1070-2 11/16G**	**1170-2 11/16**											
65		**1075-65G**	**1175-65**	130.000	25.00	77.80	33.34	94.00	12.00	1.50	66000	49500	2300	2.61
70		**1075-70G**	**1175-70**											
75		**1075-75G**	**1175-75**											
	2 11/16	**1075-2 11/16G**	**1175-2 11/16**											
	2 3/4	**1075-2 3/4G**	**1175-2 3/4**											
	2 7/8	**1075-2 7/8G**	**1175-2 7/8**											
	2 15/16	**1075-2 15/16G**	**1175-2 15/16**											
	3	**1075-3G**	**1175-3**											
75		**1080-75G**	**1180-75**	140.000	26.00	82.60	33.34	100.00	12.00	2.00	71500	54500	2150	3.23
80		**1080-80G**	**1180-80**											
	2 15/16	**1080-2 15/16G**	**1180-2 15/16**											
	3	**1080-3G**	**1180-3**											
	3 3/16	**1080-3 3/16G**	**1180-3 3/16**											
	3 1/4	**1080-3 1/4G**	**1180-3 1/4**											
80		**1085-80G**	**1185-80**	150.000	28.00	85.70	34.15	107.10	12.00	2.00	83000	64000	2000	3.74
85		**1085-85G**	**1185-85**											
	3 3/16	**1085-3 3/16G**	**1185-3 3/16**											
	3 1/4	**1085-3 1/4G**	**1185-3 1/4**											
	3 3/8	**1085-3 3/8G**	**1185-3 3/8**											
	3 7/16	**1085-3 7/16G**	**1185-3 7/16**											
85		**1090-85G**	**1190-85**	160.000	30.00	96.00	39.74	111.50	15.00	2.00	96000	71500	1900	4.99
90		**1090-90G**	**1190-90**											
	3 7/16	**1090-3 7/16G**	**1190-3 7/16**											
	3 1/2	**1090-3 1/2G**	**1190-3 1/2**											
95		**3095-95G**		200.000	45.00	117.48	49.31	127.10	16.00	2.50	157000	122000	1600	9.53
100		**3095-100G**												
	3 15/16	**3095-3 15/16G**												
	4	**3095-4G**												

Self-Lube® bearing inserts
1000DECG and 1100DEC Series

1000DECG
With spherical outside diameter
and eccentric collar lock



1100DEC
With parallel outside diameter
and eccentric collar lock

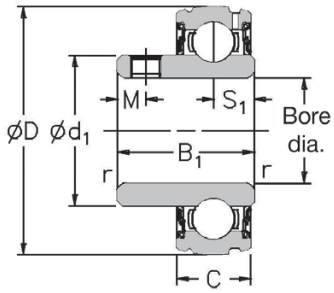


Shaft diameter		RHP designation		Dimensions (mm)						ISO Load ratings		Rec. max. speed	Mass (approx.)
mm	inches	1000DECG Series	1100DEC Series	D	C	B3	s2	d2	r	dynamic Cr newtons	static Cor newtons	rev/min	kg
20		1020-20DECG	1120-20DEC	47.000	14.00	43.73	17.13	33.30	1.00	12800	6650	6700	0.20
	¾	1020-¾DECG	1120-¾DEC										
25		1025-25DECG	1125-25DEC	52.000	15.00	44.43	17.53	38.10	1.00	14000	7880	6250	0.26
	⅞	1025-⅞DECG	1125-⅞DEC										
	15/16	1025-15/16DECG	1125-15/16DEC										
	1	1025-1DECG	1125-1DEC										
30		1030-30DECG	1130-30DEC	62.000	16.00	48.43	18.33	44.50	1.00	19500	11300	5300	0.53
	1⅛	1030-1⅛DECG	1130-1⅛DEC										
	1 3/16	1030-1 3/16DECG	1130-1 3/16DEC										
	1¼	1030-1¼DECG	1130-1¼DEC										
35		1035-35DECG	1135-35DEC	72.000	17.00	51.13	18.83	55.60	1.00	25700	15300	4500	0.70
	1¼	1035-1¼DECG	1135-1¼DEC										
	1⅜	1035-1⅜DECG	1135-1⅜DEC										
	1 7/16	1035-1 7/16DECG	1135-1 7/16DEC										
40		1040-40DECG	1140-40DEC	80.000	18.00	56.33	21.43	60.30	1.00	32500	19900	4000	0.82
	1½	1040-1½DECG	1140-1½DEC										
45		1045-45DECG	1145-45DEC	85.000	19.00	56.33	21.43	63.50	1.00	32500	20500	3700	1.08
	1⅝	1045-1⅝DECG	1145-1⅝DEC										
	1 11/16	1045-1 11/16DECG	1145-1 11/16DEC										
	1¾	1045-1¾DECG	1145-1¾DEC										
50		1050-50DECG	1150-50DEC	90.000	20.00	62.73	24.64	69.90	1.00	35000	23200	3400	1.19
	1⅞	1050-1⅞DECG	1150-1⅞DEC										
	1 15/16	1050-1 15/16DECG	1150-1 15/16DEC										
55		1055-55DECG	1155-55DEC	100.000	21.00	71.42	27.84	76.20	1.50	43500	29200	3100	1.40
	2	1055-2DECG	1155-2DEC										
	2⅛	1055-2⅛DECG	1155-2⅛DEC										
	2 3/16	1055-2 3/16DECG	1155-2 3/16DEC										
60		1060-60DECG	1160-60DEC	110.000	22.00	77.84	31.04	84.20	1.50	48000	33000	2800	1.72
	2¼	1060-2¼DECG	1160-2¼DEC										
	2⅜	1060-2⅜DECG	1160-2⅜DEC										
	2 7/16	1060-2 7/16DECG	1160-2 7/16DEC										
	2½	1065-2½DECG	1165-2½DEC	120.000	23.00	85.74	34.14	92.00	1.50	57500	40000	2600	2.21
65		1070-65DECG	1170-65DEC	125.000	24.00	85.74	34.14	97.00	1.50	61000	45000	2450	2.56
70		1070-70DECG	1170-70DEC										
	2½	1070-2½DECG	1170-2½DEC										
	2⅝	1070-2⅝DECG	1170-2⅝DEC										
	2 11/16	1070-2 11/16DECG	1170-2 11/16DEC										
65		1075-65DECG	1175-65DEC	130.000	25.00	92.14	37.34	102.00	1.50	66000	49500	2300	2.94
70		1075-70DECG	1175-70DEC										
75		1075-75DECG	1175-75DEC										
	2 11/16	1075-2 11/16DECG	1175-2 11/16DEC										
	2¾	1075-2¾DECG	1175-2¾DEC										
	2⅞	1075-2⅞DECG	1175-2⅞DEC										
	2 15/16	1075-2 15/16DECG	1175-2 15/16DEC										

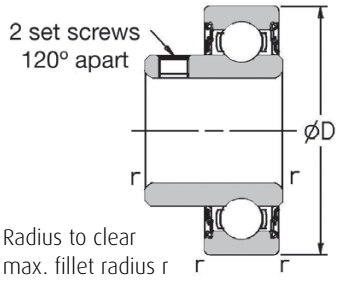
Please check availability

Self-Lube® bearing inserts
1200G and 1300 Series

1200G
With spherical outside diameter
and integral set screw lock



1300
With parallel outside diameter
and integral set screw lock

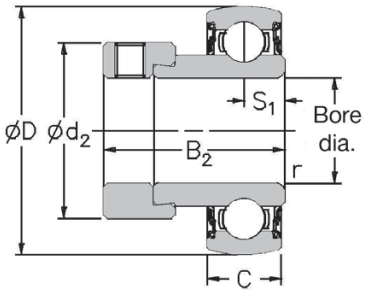


Shaft diameter		RHP designation		Dimensions (mm)							ISO Load ratings		Rec. max. speed	Mass (approx.)
mm	inches	1200G Series	1300 Series	D	C	B1	s1	d1	M	r	dynamic Cr newtons	static Cor newtons	rev/min	kg
20		**1220-20G**	**1320-20**	47.000	14.00	25.80	7.53	28.30	5.00	1.00	12800	6650	6700	0.10
	¾	**1220-¾G**	**1320-¾**											
25		**1225-25G**	**1325-25**	52.000	15.00	27.30	7.53	34.00	5.00	1.00	14000	7880	6250	0.13
	1	**1225-1G**	**1325-1**											
30		**1230-30G**	**1330-30**	62.000	16.00	31.20	9.03	40.30	5.00	1.00	19500	11300	5300	0.32
	1¼	**1230-1¼G**	**1330-1¼**											
35		**1235-35G**	**1335-35**	72.000	17.00	34.90	9.53	46.90	6.50	1.00	25700	15300	4500	0.43
	1¼	**1235-1¼G**	**1335-1¼**											
40		**1240-40G**	**1340-40**	80.000	18.00	41.20	11.03	52.40	8.00	1.00	32500	19900	4000	0.54
	1½	**1240-1½G**	**1340-1½**											
45		**1245-45G**	**1345-45**	85.000	19.00	41.20	11.04	57.40	8.00	1.00	32500	20500	3700	0.61
	1¾	**1245-1¾G**	**1345-1¾**											
50		**1250-50G**	**1350-50**	90.000	20.00	43.50	11.04	62.40	10.00	1.00	35000	23200	3400	0.76

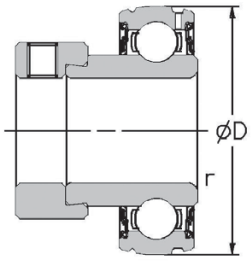
Please check availability

Self-Lube® bearing inserts
1200EC and 1200ECG Series
1300EC Series

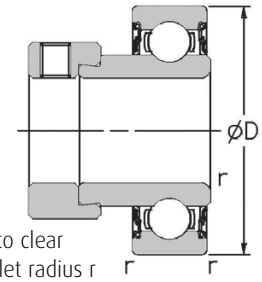
1200EC
With spherical outside diameter, non-re-greaseable outer ring and eccentric collar lock



1200ECG
With spherical outside diameter, re-greaseable outer ring and eccentric collar lock



1300EC
With parallel outside diameter and eccentric collar lock



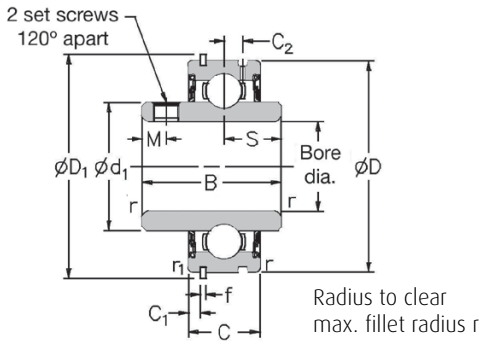
Radius to clear max. fillet radius r

Shaft diameter mm	Shaft diameter inches	RHP designation 1200EC Series	1200ECG Series	1300EC Series	Dimensions (mm) D	C	B2	s1	d2	r	ISO Load ratings dynamic Cr newtons	static Cor newtons	Rec. max. speed rev/min	Mass (approx.) kg
12		1217-12EC	1217-12ECG	1317-12EC	40.000	12.00	28.63	6.53	28.60	0.60	9550	4800	7000	0.15
15		1217-15EC	1217-15ECG	1317-15EC										
16		1217-16EC	1217-16ECG	1317-16EC										
17		1217-17EC	1217-17ECG	1317-17EC										
	½	1217-½EC	1217-½ECG	1317-½EC										
	⅝	1217-⅝EC	1217-⅝ECG	1317-⅝EC										
20		1220-20EC	1220-20ECG	1320-20EC	47.000	14.00	31.03	7.53	33.30	1.00	12800	6650	6700	0.16
	¾	1220-¾EC	1220-¾ECG	1320-¾EC										
25		1225-25EC	1225-25ECG	1325-25EC	52.000	15.00	31.03	7.53	38.10	1.00	14000	7880	6250	0.23
	⅞	1225-⅞EC	1225-⅞ECG	1325-⅞EC										
	15⁄16	1225-15⁄16EC	1225-15⁄16ECG	1325-15⁄16EC										
	1	1225-1EC	1225-1ECG	1325-1EC										
30		1230-30EC	1230-30ECG	1330-30EC	62.000	16.00	35.73	9.03	44.50	1.00	19500	11300	5300	0.40
	1⅛	1230-1⅛EC	1230-1⅛ECG	1330-1⅛EC										
	13⁄16	1230-13⁄16EC	1230-13⁄16ECG	1330-13⁄16EC										
	1¼	1230-1¼EC	1230-1¼ECG	1330-1¼EC										
35		1235-35EC	1235-35ECG	1335-35EC	72.000	17.00	38.93	9.53	55.60	1.00	25700	15300	4500	0.58
	1¼	1235-1¼EC	1235-1¼ECG	1335-1¼EC										
	1⅜	1235-1⅜EC	1235-1⅜ECG	1335-1⅜EC										
	17⁄16	1235-17⁄16EC	1235-17⁄16ECG	1335-17⁄16EC										
40		1240-40EC	1240-40ECG	1340-40EC	80.000	18.00	43.73	11.03	60.30	1.00	32500	19900	4000	0.73
	1½	1240-1½EC	1240-1½ECG	1340-1½EC										
45		1245-45EC	1245-45ECG	1345-45EC	85.000	19.00	43.73	11.03	63.50	1.00	32500	20500	3700	0.87
	1⅝	1245-1⅝EC	1245-1⅝ECG	1345-1⅝EC										
	111⁄16	1245-111⁄16EC	1245-111⁄16ECG	1345-111⁄16EC										
	1¾	1245-1¾EC	1245-1¾ECG	1345-1¾EC										
50		1250-50EC	1250-50ECG	1350-50EC	90.000	20.00	43.73	11.04	69.90	1.00	35000	23200	3400	0.98
	1⅞	1250-1⅞EC	1250-1⅞ECG	1350-1⅞EC										
	115⁄16	1250-115⁄16EC	1250-115⁄16ECG	1350-115⁄16EC										
	2	1250-2EC	1250-2ECG	1350-2EC										

Please check availability

Self-Lube® bearing inserts complete with snap ring
1100CG Series

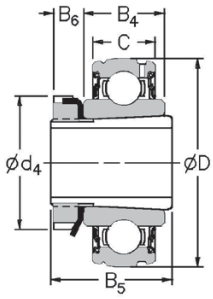
1100CG
With parallel outside diameter and integral set screw lock



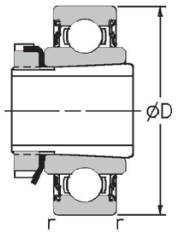
Shaft diameter		RHP designation	Dimensions (mm)												ISO Load ratings		Rec. max. speed	Mass (approx.)
mm	inches	1100CG Series	D	D1	C	C1	C2	B	s	d1	f	M	r	r1	dynamic Cr newtons	static Cor newtons	rev/ min	kg
20		**1120-20CG**	47.000	52.68	15.88	2.39	4.17	31.00	12.73	28.30	1.12	5.00	1.00	0.50	12800	6650	6700	0.23
	¾	**1120-¾CG**																
25		**1125-25CG**	52.000	57.81	19.05	2.39	4.39	34.10	14.33	34.00	1.12	5.00	1.00	0.50	14000	7880	6250	0.31
	⅞	**1125-⅞CG**																
	15/16	**1125-15/16CG**																
	1	**1125-1CG**																
30		**1130-30CG**	62.000	67.69	22.22	3.18	5.10	38.10	15.93	40.30	1.70	5.00	1.00	0.50	19500	11300	5300	0.42
	1⅛	**1130-1⅛CG**																
	1 3/16	**1130-1 3/16CG**																
35		**1135-35CG**	72.000	78.51	23.81	3.18	5.61	42.90	17.53	46.90	1.70	6.50	1.00	1.00	25700	15300	4500	0.61
	1¼	**1135-1¼CG**																
	1⅜	**1135-1⅜CG**																
	1⅞	**1135-1 7/16CG**																
40		**1140-40CG**	80.000	86.51	27.78	3.18	6.22	49.20	19.03	52.40	1.70	8.00	1.00	1.00	32500	19900	4000	0.91
	1½	**1140-1½CG**																
45		**1145-45CG**	85.000	91.51	27.78	3.18	6.52	49.20	19.04	57.40	1.70	8.00	1.00	1.00	32500	20500	3700	1.05
	1⅝	**1145-1⅝CG**																
	1 11/16	**1145-1 11/16CG**																
	1¾	**1145-1¾CG**																
	1⅞	**1150-1⅞CG**	90.000	96.49	28.58	3.18	6.72	51.59	19.10	62.40	2.46	10.00	1.00	1.00	35000	23200	3400	1.10
	1 15/16	**1150-1 15/16CG**																
55		**1155-55CG**	100.00	106.50	30.16	3.18	7.43	55.60	22.20	68.90	2.46	10.00	1.00	1.00	43500	29200	3100	1.50
	2	**1155-2CG**																
	2 3/16	**1155-2 3/16CG**																

Please check availability

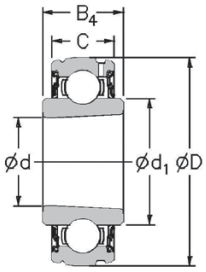
Self-Lube® bearing inserts with adapter sleeves
1000-KG and 1100-K Series



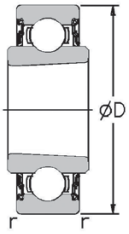
1000-KG



1100-K



1000KG



1100K

Bore taper 1:12
on diameter

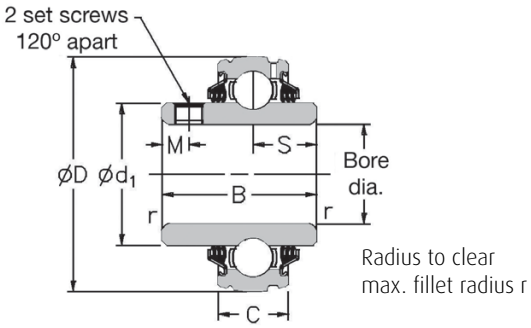
Shaft diameter		RHP designation		Sleeve nut & lockwasher assembly only	Basic insert without sleeve, nut & lockwasher		Dimensions (mm)		
mm	inches	1000-KG Series	1100-K Series		1000KG	1100K	D	C	B4
20		**1025-20KG**	**1125-20K**	**H305**	1025KG	1125K	52.000	15.00	19.00
	¾	**1025-¾KG**	**1125-¾K**	**HE305-¾**					
25		**1030-25KG**	**1130-25K**	**H306**	1030KG	1130K	62.000	16.00	20.00
	15/16	**1030-15/16KG**	**1130-15/16K**	**HE306-15/16**					
	1	**1030-1KG**	**1130-1K**	**HE306-1**					
30		**1035-30KG**	**1135-30K**	**H307**	1035KG	1135K	72.000	17.00	21.00
	1⅛	**1035-1⅛KG**	**1135-1⅛K**	**HE307-1⅛**					
	1 3/16	**1035-1 3/16KG**	**1135-1 3/16K**	**HE307-1 3/16**					
35		**1040-35KG**	**1140-35K**	**H308**	1040KG	1140K	80.000	18.00	22.00
	1¼	**1040-1¼KG**	**1140-1¼K**	**HE308-1¼**					
	1⅜	**1040-1⅜KG**	**1140-1⅜K**	**HE308-1⅜**					
40		**1045-40KG**	**1145-40K**	**H309**	1045KG	1145K	85.000	19.00	23.00
	1 7/16	**1045-1 7/16KG**	**1145-1 7/16K**	**HE309-1 7/16**					
	1½	**1045-1½KG**	**1145-1½K**	**HE309-1½**					
45		**1050-45KG**	**1150-45K**	**H310**	1050KG	1150K	90.000	20.00	24.00
	1 11/16	**1050-1 11/16KG**	**1150-1 11/16K**	**HE310-1 11/16**					
	1¾	**1050-1¾KG**	**1150-1¾K**	**HE310-1¾**					
50		**1055-50KG**	**1155-50K**	**H311**	1055KG	1155K	100.000	21.00	25.00
	1 15/16	**1055-1 15/16KG**	**1155-1 15/16K**	**HE311-1 15/16**					
	2	**1055-2KG**	**1155-2K**	**HE311-2**					

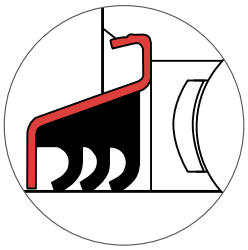
Please check availability

Dimensions (mm)						ISO Load ratings		Rec. max. speed	Mass (approx.)
B5	B6	d	d1	d4	r	dynamic Cr newtons	static Cor newtons	rev/min	kg
29.00	8.00	25.000	34.00	38.00	1.00	14000	7880	6250	0.20
31.00	8.00	30.000	40.30	45.00	1.00	19500	11300	5300	0.30
35.00	9.00	35.000	46.90	52.00	1.00	25700	15300	4500	0.42
36.00	10.00	40.000	52.40	58.00	1.00	32500	19900	4000	0.54
39.00	11.00	45.000	57.40	65.00	1.00	32500	20500	3700	0.64
42.00	12.00	50.000	62.40	70.00	1.00	35000	23200	3400	0.75
45.00	12.00	55.000	68.90	75.00	1.50	43500	29200	3100	0.95

Self-Lube® triple seal bearing inserts
T1000G Series

T1000G
With spherical outside diameter and integral set screw lock





Shaft diameter mm	Shaft diameter inches	RHP designation	Dimensions (mm) D	C	B	s	d1	M	r	ISO Load ratings dynamic Cr newtons	ISO Load ratings static Cor newtons	Rec. max. speed rev/min	Mass (approx.) kg
25		**T1025-25G**	52.000	15.00	34.10	14.33	34.00	5.00	1.00	14000	7880	1000	0.17
	7/8	**T1025-7/8G**											
	15/16	**T1025-15/16G**											
	1	**T1025-1G**											
25		**T1030-25G**	62.000	18.00	38.10	15.93	40.30	5.00	1.00	19500	11300	850	0.37
30		**T1030-30G**											
	7/8	**T1030-7/8G**											
	1	**T1030-1G**											
	1 1/8	**T1030-1 1/8G**											
	1 3/16	**T1030-1 3/16G**											
	1 1/4	**T1030-1 1/4G**											
30		**T1035-30G**	72.000	19.00	42.90	17.53	46.90	6.50	1.00	25700	15300	750	0.51
35		**T1035-35G**											
	1 3/16	**T1035-1 3/16G**											
	1 1/4	**T1035-1 1/4G**											
	1 3/8	**T1035-1 3/8G**											
	1 7/16	**T1035-1 7/16G**											
35		**T1040-35G**	80.000	21.00	49.20	19.03	52.40	8.00	1.00	32500	19900	650	0.64
40		**T1040-40G**											
	1 3/8	**T1040-1 3/8G**											
	1 7/16	**T1040-1 7/16G**											
	1 1/2	**T1040-1 1/2G**											
40		**T1045-40G**	85.000	22.00	49.20	19.04	57.40	8.00	1.00	32500	20500	600	0.73
45		**T1045-45G**											
	1 1/2	**T1045-1 1/2G**											
	1 5/8	**T1045-1 5/8G**											
	1 11/16	**T1045-1 11/16G**											
	1 3/4	**T1045-1 3/4G**											
45		**T1050-45G**	90.000	23.00	51.60	19.04	62.40	10.00	1.00	35000	23200	550	0.91
50		**T1050-50G**											
	1 11/16	**T1050-1 11/16G**											
	1 3/4	**T1050-1 3/4G**											
	1 7/8	**T1050-1 7/8G**											
	1 15/16	**T1050-1 15/16G**											
	2	**T1050-2G**											
50		**T1055-50G**	100.000	25.00	55.60	22.24	68.90	10.00	1.50	43500	29200	500	1.12
55		**T1055-55G**											
	1 7/8	**T1055-1 7/8G**											
	1 15/16	**T1055-1 15/16G**											
	2	**T1055-2G**											
	2 1/8	**T1055-2 1/8G**											
	2 3/16	**T1055-2 3/16G**											

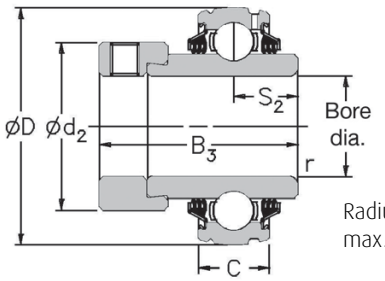
Please check availability

Shaft diameter		RHP designation	Dimensions (mm)							ISO Load ratings		Rec. max. speed	Mass (approx.)
mm	inches		D	C	B	s	d1	M	r	dynamic Cr newtons	static Cor newtons	rev/ min	kg
55		**T1060-55G**	110.000	25.00	65.10	25.44	76.00	10.00	1.50	48000	33000	450	1.50
60		**T1060-60G**											
	2 3/16	**T1060-2 3/16G**											
	2 1/4	**T1060-2 1/4G**											
	2 3/8	**T1060-2 3/8G**											
	2 7/16	**T1060-2 7/16G**											
60		**T1070-60G**	125.000	28.00	74.60	30.24	89.00	12.00	1.50	61000	45000	400	2.30
65		**T1070-65G**											
70		**T1070-70G**											
	2 7/16	**T1070-2 7/16G**											
	2 1/2	**T1070-2 1/2G**											
	2 5/8	**T1070-2 5/8G**											
	2 11/16	**T1070-2 11/16G**											
75		**T1080-75G**	140.000	30.00	82.60	33.34	100.00	12.00	2.00	71500	54500	345	3.27
80		**T1080-80G**											
	2 15/16	**T1080-2 15/16G**											
	3	**T1080-3G**											

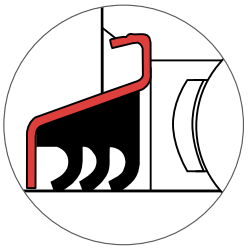
Please check availability

Self-Lube® triple seal bearing inserts
T1000DECG Series

T1000DECG
With spherical outside diameter and eccentric collar lock



Radius to clear max. fillet radius r

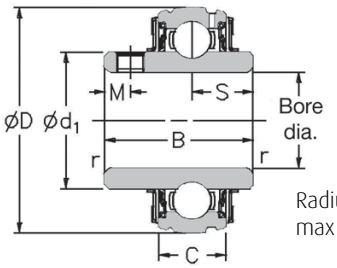


Shaft diameter mm	Shaft diameter inches	RHP designation	Dimensions (mm) D	C	B3	s2	d2	r	ISO Load ratings dynamic Cr newtons	ISO Load ratings static Cor newtons	Rec. max. speed rev/min	Mass (approx.) kg
25		T1025-25DECG	52.000	15.00	44.43	17.53	38.10	1.00	14000	7880	1000	0.26
	7/8	T1025-7/8DECG										
	15/16	T1025-15/16DECG										
	1	T1025-1DECG										
30		T1030-30DECG	62.000	18.00	48.43	18.33	44.50	1.00	19500	11300	850	0.53
	1 1/8	T1030-1 1/8DECG										
	1 3/16	T1030-1 3/16DECG										
	1 1/4	T1030-1 1/4DECG										
35		T1035-35DECG	72.000	19.00	51.13	18.83	55.60	1.00	25700	15300	750	0.70
	1 1/4	T1035-1 1/4DECG										
	1 3/8	T1035-1 3/8DECG										
	1 7/16	T1035-1 7/16DECG										
40		T1040-40DECG	80.000	21.00	56.33	21.43	60.30	1.00	32500	19900	650	0.82
	1 1/2	T1040-1 1/2DECG										
45		T1045-45DECG	85.000	22.00	56.33	21.43	63.50	1.00	32500	20500	600	1.08
	1 5/8	T1045-1 5/8DECG										
	1 11/16	T1045-1 11/16DECG										
	1 3/4	T1045-1 3/4DECG										
50		T1050-50DECG	90.000	23.00	62.73	24.64	69.90	1.00	35000	23200	550	1.19
	1 7/8	T1050-1 7/8DECG										
	1 15/16	T1050-1 15/16DECG										
55		T1055-55DECG	100.000	25.00	71.42	27.84	76.20	1.50	43500	29200	500	1.40
	2	T1055-2DECG										
	2 1/8	T1055-2 1/8DECG										
	2 3/16	T1055-2 3/16DECG										
60		T1060-60DECG	110.000	25.00	77.84	31.04	84.20	1.50	48000	33000	450	1.81
	2 1/4	T1060-2 1/4DECG										
	2 7/16	T1060-2 7/16DECG										
65		T1070-65DECG	125.000	28.00	85.74	34.14	97.00	1.50	61000	45000	400	2.49
70		T1070-70DECG										

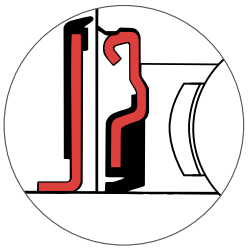
Please check availability

Self-Lube® bearing inserts with flinger seals
1000GFS Series

1000GFS
With spherical outside diameter and integral set screw lock



Radius to clear max. fillet radius r

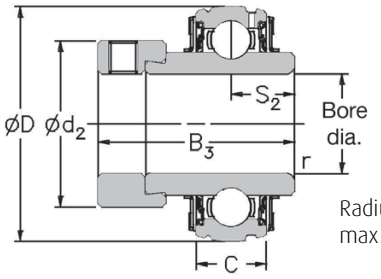


Shaft diameter mm	Shaft diameter inches	RHP designation	Dimensions (mm) D	C	B	s	d1	M	r	ISO Load ratings dynamic Cr newtons	ISO Load ratings static Cor newtons	Rec. max. speed rev/min	Mass (approx.) kg
25		**1025-25GFS**	52.000	15.00	34.10	14.33	34.00	5.00	1.00	14000	7880	6250	0.17
	7/8	**1025-7/8GFS**											
	15/16	**1025-15/16GFS**											
	1	**1025-1GFS**											
25		**1030-25GFS**	62.000	16.00	38.10	15.93	40.30	5.00	1.00	19500	11300	5300	0.37
30		**1030-30GFS**											
	7/8	**1030-7/8GFS**											
	1	**1030-1GFS**											
	1 1/8	**1030-1 1/8GFS**											
	1 3/16	**1030-1 3/16GFS**											
	1 1/4	**1030-1 1/4GFS**											
30		**1035-30GFS**	72.000	17.00	42.90	17.53	46.90	6.50	1.00	25700	15300	4500	0.51
35		**1035-35GFS**											
	1 3/16	**1035-1 3/16GFS**											
	1 1/4	**1035-1 1/4GFS**											
	15/16	**1035-15/16GFS**											
	1 3/8	**1035-1 3/8GFS**											
	1 7/16	**1035-1 7/16GFS**											
35		**1040-35GFS**	80.000	18.00	49.20	19.03	52.40	8.00	1.00	32500	19900	4000	0.64
40		**1040-40GFS**											
	1 3/8	**1040-1 3/8GFS**											
	1 7/16	**1040-1 7/16GFS**											
	1 1/2	**1040-1 1/2GFS**											
40		**1045-40GFS**	85.000	19.00	49.20	19.04	57.40	8.00	1.00	32500	20500	3700	0.73
45		**1045-45GFS**											
	1 1/2	**1045-1 1/2GFS**											
	1 5/8	**1045-1 5/8GFS**											
	1 11/16	**1045-1 11/16GFS**											
	1 3/4	**1045-1 3/4GFS**											
45		**1050-45GFS**	90.000	20.00	51.60	19.04	62.40	10.00	1.00	35000	23200	3400	0.91
50		**1050-50GFS**											
	1 11/16	**1050-1 11/16GFS**											
	1 3/4	**1050-1 3/4GFS**											
	1 7/8	**1050-1 7/8GFS**											
	1 15/16	**1050-1 15/16GFS**											
	2	**1050-2GFS**											
50		**1055-50GFS**	100.000	21.00	55.60	22.24	68.90	10.00	1.50	43500	29200	3100	1.12
55		**1055-55GFS**											
	1 7/8	**1055-1 7/8GFS**											
	1 15/16	**1055-1 15/16GFS**											
	2	**1055-2GFS**											
	2 1/8	**1055-2 1/8GFS**											
	2 3/16	**1055-2 3/16GFS**											
55		**1060-55GFS**	110.000	22.00	65.10	25.44	76.00	10.00	1.50	48000	33000	2800	1.47
60		**1060-60GFS**											
	2 3/16	**1060-2 3/16GFS**											
	2 1/4	**1060-2 1/4GFS**											
	2 3/8	**1060-2 3/8GFS**											
	2 7/16	**1060-2 7/16GFS**											

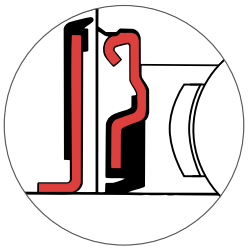
Please check availability

Self-Lube® bearing inserts with flinger seals
1000DECGFS Series

1000DECGFS
With spherical outside diameter and eccentric collar lock



Radius to clear max. fillet radius r

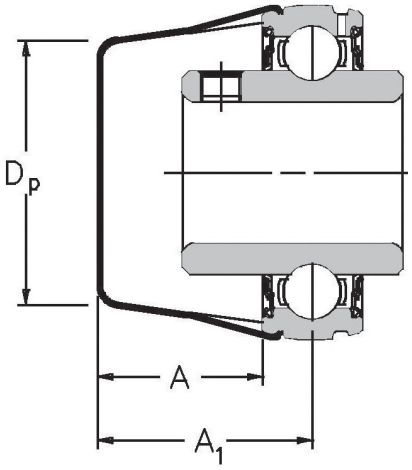


Shaft diameter		RHP designation	Dimensions (mm)						ISO Load ratings		Rec. max. speed	Mass (approx.)
mm	inches		D	C	B3	s2	d2	r	dynamic Cr newtons	static Cor newtons	rev/ min	kg
25		**1025-25DECGFS**	52.000	15.00	44.43	17.53	38.10	1.00	14000	7880	6250	0.26
	7/8	**1025-7/8DECGFS**										
	15/16	**1025-15/16DECGFS**										
	1	**1025-1DECGFS**										
30		**1030-30DECGFS**	62.000	16.00	48.43	18.33	44.50	1.00	19500	11300	5300	0.53
	1	**1030-1 1/8DECGFS**										
	1 3/16	**1030-1 3/16DECGFS**										
	1 1/4	**1030-1 1/4DECGFS**										
35		**1035-35DECGFS**	72.000	17.00	51.13	18.83	55.60	1.00	25700	15300	4500	0.70
	1 1/4	**1035-1 1/4DECGFS**										
	15/16	**1035-15/16DECGFS**										
	1 3/8	**1035-1 3/8DECGFS**										
	1 7/16	**1035-1 7/16DECGFS**										
40		**1040-40DECGFS**	80.000	18.00	56.33	21.43	60.30	1.00	32500	19900	4000	0.82
	1 1/2	**1040-1 1/2DECGFS**										
45		**1045-45DECGFS**	85.000	19.00	56.33	21.43	63.50	1.00	32500	20500	3700	1.08
	1 5/8	**1045-1 5/8DECGFS**										
	1 11/16	**1045-1 11/16DECGFS**										
	1 3/4	**1045-1 3/4DECGFS**										
50		**1050-50DECGFS**	90.000	20.00	62.73	24.64	69.90	1.00	35000	23200	3400	1.19
	1 7/8	**1050-1 7/8DECGFS**										
	1 15/16	**1050-1 15/16DECGFS**										
55		**1055-55DECGFS**	100.000	21.00	71.42	27.84	76.20	1.50	43500	29200	3100	1.40
	2	**1055-2DECGFS**										
	2 1/8	**1055-2 1/8DECGFS**										
	2 3/16	**1055-2 3/16DECGFS**										
60		**1060-60DECGFS**	110.000	22.00	77.84	31.04	84.20	1.50	48000	33000	2800	1.72
	2 1/4	**1060-2 1/4DECGFS**										
	2 3/8	**1060-2 3/8DECGFS**										
	2 7/16	**1060-2 7/16DECGFS**										

Please check availability

Self-Lube® protector
The Protector Range

RHP designation	Dimensions (mm)			Basic bearing insert
	Dp	A	A1	
20P	37.0	23.0	30.0	1020
25P	42.5	23.0	30.5	1025
30P=2	50.5	36.0	44.0	1030
35P=2	60.5	38.5	47.0	1035
40P=1	67.5	42.0	51.0	1040
45P	72.0	30.0	39.5	1045
50P=1	76.0	46.0	56.0	1050
55P	85.0	37.5	48.0	1055
60P	94.0	40.5	51.5	1060



The following table shows the range of units which can be fitted with a protector and indicates the right protector to select.

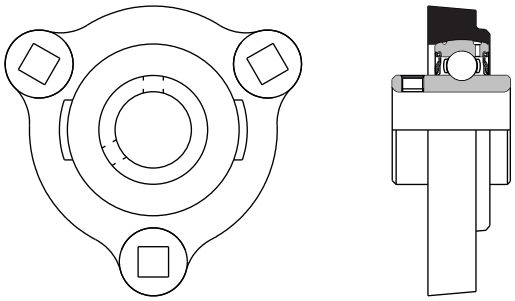
Bore size	Self-Lube® unit												
	NP	SFT	SNP	LFTC	FC	ST	BT	SLFEP	SLFTP	MFC	SCHB	NP-K	MP
	NP-A	SFT-A	SNP-A	LFTC-A	FC-A	ST-A	BT-A	SLFEP-A	SLFTP-A		SCH	MP-K	MSF
	NP-EC	SFT-EC	SNP-EC	LFTC-EC	FC-EC	ST-EC	BT-EC	SLFEP-EC	SLFTP-EC			MSF-K	MSFT
	NP-DEC	SFT-DEC	SNP-DEC	LFTC-DEC	FC-DEC	ST-DEC		SLFEP-DEC	SLFTP-DEC			MSFT-K	MST
	SL	SLC	CNP	SLFLP								MST-K	MSC
	SL-A	SLC-A	CNP-A	SLFLP-A									
	SL-EC	SLC-EC	CNP-EC	SLFLP-EC									
	SL-DEC	SLC-DEC	CNP-DEC	SLFLP-DEC									
	SF												
	SF-A												
	SF-EC												
	SF-DEC												
20, ¾	20P	20P	20P	20P	20P	20P	–	20P	–	–	20P	25P	–
25, ⅞, 15⁄16, 1	25P	25P	25P	25P	25P	25P	25P	25P	25P	30P=2	30P=2	30P=2	30P=2
30, 1⅛	30P=2	30P=2	30P=2	30P=2	30P=2	30P=2	–	30P=2	30P=2	35P=2	30P=2	35P=2	35P=2
1 3⁄16	30P=2	30P=2	30P=2	30P=2	30P=2	30P=2	–	30P=2	30P=2	35P=2	35P=2	35P=2	35P=2
1¼	35P=2	35P=2	35P=2	30P=2	35P=2	35P=2	35P=2	30P=2	30P=2	35P=2	35P=2	40P=1	35P=2
35, 1⅜	35P=2	35P=2	35P=2	35P=2	35P=2	35P=2	35P=2	35P=2	35P=2	40P=1	35P=2	40P=1	40P=1
1 7⁄16	35P=2	35P=2	35P=2	35P=2	35P=2	35P=2	35P=2	35P=2	35P=2	40P=1	40P=1	45P	40P=1
40, 1½	40P=1	40P=1	40P=1	–	40P=1	40P=1	–	40P=1*	–	40P=1	40P=1	45P	45P
45, 1⅝	45P	45P	45P	–	45P	45P	–	45P*	–	50P=1	50P=1	50P=1	50P=1
1 11⁄16, 1¾	45P	45P	45P	–	45P	45P	–	45P*	–	50P=1	50P=1	50P=1	50P=1
50, 1⅞, 1 15⁄16	50P=1	50P=1	–	–	50P=1	50P=1	–	50P=1*	–	55P	50P=1	55P	55P
2	55P	55P	–	–	55P	55P	–	55P*	–	55P	50P=1	55P	55P
55, 2⅛, 2 3⁄16	55P	55P	–	–	55P	55P	–	55P*	–	60P	60P	–	60P
2¼	60P	60P	–	–	60P	60P	–	60P*	–	60P	60P	–	60P
60, 2⅜, 2 7⁄16	60P	60P	–	–	60P	60P	–	60P*	–	–	60P	–	–

* Please check availability of units (protectors are available, but special SLFEP flangettes may not be).
Note 1: The appropriate protector is determined by the basic bearing insert group.
Note 2: When a pressing from the series SLFL, SLFE or SLFT is fitted with a protector, the unit reference includes the letter "P", e.g. SLFEP-25EC.

Additional Products

LF series, LFG series

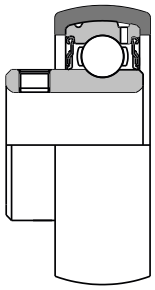
A range of three bolt spheroidal graphite iron housed units, available in bore sizes 25mm to 35mm and 1" to $1^{7}/_{16}$".
LF series units are not re-greaseable.
LFG series units use an M5 grease nipple.



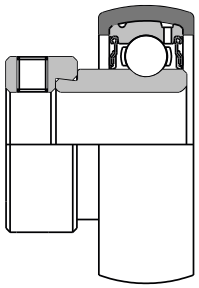
LF series

AR-A series, AR-EC series

The AR series is the bearing and rubber cartridge used in the LPBR unit (Pages 76 and 77).
Available as a series for users who have their own housing.
Bore sizes 12mm to 30mm and $^{1}/_{2}$" to $1^{1}/_{4}$".



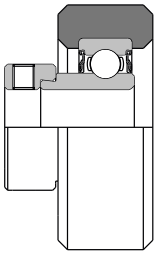
AR-A series



AR-EC series

SRM-EC series

Rubber housed units fitted with the 1120 or 1125 type inserts. Available in bore sizes 20mm, $^{3}/_{4}$", 25mm, $^{7}/_{8}$" and 1" with eccentric collar or set screw lock.



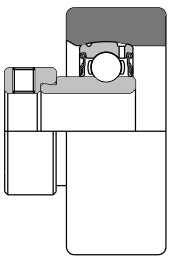
SRM-EC series

SRC-EC series

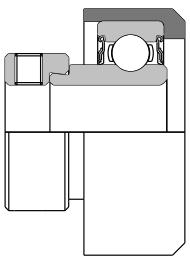
Rubber housed units suitable for the air conditioning market, two housings each with an outside diameter of 64,5mm and in bore sizes 20mm to 25mm and $^{3}/_{4}$" to 1" are available.

Special SRC types

Bore sizes 20mm and $^{3}/_{4}$".
Offered with eccentric collar lock.
(SRC11004 and SRC11005 respectively.)



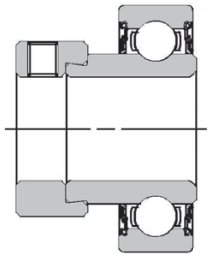
SRC-EC series



Special SRC series

2300-EC extra light series

The 2300-EC series is an extra light bearing, based on the 6000 series configuration, and is available in bore sizes 20mm to 30mm and $^{3}/_{4}$" to $1^{3}/_{16}$".



2300-EC
extra light series

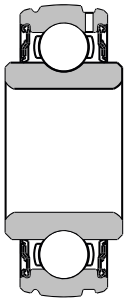
1600-G series, 1600-HG series

A range of spherical outside diameter deep groove wide inner ring ball bearings with either round or hexagonal bores.

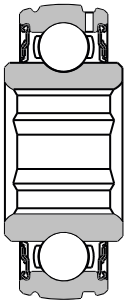
These are re-greaseable and available in round bore sizes 20mm to 75mm and $^{3}/_{4}$" to $2^{15}/_{16}$" and hexagonal bore sizes $^{7}/_{8}$" AF to $1^{1}/_{2}$" AF and 22mm AF to 38mm AF.

Round bore diameters are an interference fit on the shaft.

The standard Self-Lube® cage and seals are fitted.



1600-G series

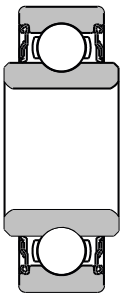


1600-HG series

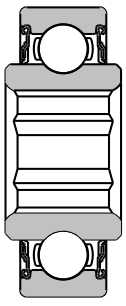
1700 series, 1700-H series

As 1600-G, 1600-HG but with parallel outside diameters, although this range is not re-greaseable.

Again, round bore diameters are an interference fit on the shaft.



1700 series

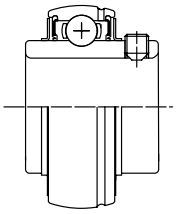


1700-H series

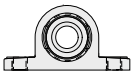
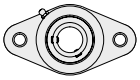
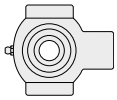
Silver-Lube® Bearing Units

Silver-Lube® unit references

Insert Type



Housing Type

	Page	100
	**102**	PNP
	**104**	PSF
	**106**	PSFT
	**108**	PST

Silver-Lube® insert references

J	10	25	-	25	G	CR

Reverse outer
(Grease groove same side as set screw)

OD profile
10: Spherical outside diameter

Basic group

Bore size
2 Digits: Millimetre sizes
Single Digit + fractions: Inch sizes

Greaseable
G: All supplied as re-greaseable

Corrosion Resistant
Rings, cage, balls and flinger are corrosion resisting steels

Silver-Lube® product range

Introduction

The Silver-Lube® series is a range of corrosion resistant bearing units specifically for use in industries where frequent thorough washdowns are necessary, optimum hygiene standards are required and good chemical resistance is important over a wide temperature range.

The units are available in pillow block, two-bolt flange, four-bolt flange and take-up unit configurations and are capable of accommodating initial misalignment from mounting errors. In operation the units have proven reliability in the most hostile applications. Relubrication is possible for long trouble-free life, minimising maintenance, maximising productivity and helping maintain hygiene standards.

Silver-Lube® housings are made from PBT thermoplastic resin which, in addition to being non-corrodible, is resistant to detergents and a wide range of chemicals. The housings are paint and coating free which prevents chipping or flaking and have smooth surfaces to assist thorough washdowns.

Silver-Lube® bearing inserts are made from stainless steel, are provided with effective, efficient sealing arrangements and are charged with an aluminium complex, high temperature approved food grade grease as standard.

For Silver-Lube® bearings the radial internal clearance (RIC) is C3.

Housing strength

Housing load carrying capacity varies depending on the application loading regime, which may be intermittent, continuous or cyclical. Maximum housing loads are given in tables 1, 2, 3 and 4. These loads must not be exceeded without prior consultation with NSK.

Published housing maximum load capacities do not allow for any reduction in housing strength caused by exposure of the housing to chemicals, water, steam, heat, ultraviolet light or any combination of these factors. If any of these factors are present in the application the designer or end-user must establish the effect of these exposures and reduce the published maximum housing load accordingly.

To maximise load carrying capacity it is recommended that washers are used with the fixing bolts. Tables 1, 2 and 3 also detail maximum fixing bolt tightening torques.

Static electricity generation

Static electricity may be generated by Silver-Lube® bearing units under certain application conditions.

Silver-Lube® bearings are therefore not recommended for use in explosive or flammable environments. If Silver-Lube® bearing units are used in flammable or explosive applications the bearing insert must be earthed.

Housing strength

PNP Series

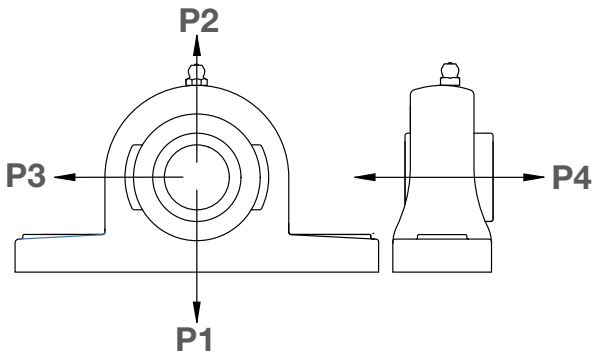


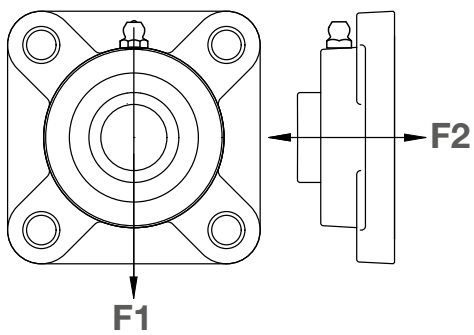
Table 1 PNP Silver-Lube® pillow block - housing load capacity

RHP designation	Maximum housing load (N) at 20°C												Max. fixing bolt torque (Nm)
	P1			P2			P3			P4			
	Inter-mittent loading	Continu-ous loading	Cyclical loading	Inter-mittent loading	Continu-ous loading	Cyclical loading	Inter-mittent loading	Continu-ous loading	Cyclical loading	Inter-mittent loading	Continu-ous loading	Cyclical loading	
PNP20CR	3500	1700	800	2800	1400	800	2600	1300	700	1300	700	400	18
PNP¾CR	3500	1700	800	2800	1400	800	2600	1300	700	1300	700	400	18
PNP25CR	4000	2000	1000	3100	1500	800	2600	1300	700	1700	900	500	25
PNP1CR	4000	2000	1000	3100	1500	800	2600	1300	700	1700	900	500	25
PNP30CR	5000	2500	1200	3500	1800	1000	4000	2000	1100	2600	1300	700	30
PNP1 3/16CR	5000	2500	1200	3500	1800	1000	4000	2000	1100	2600	1300	700	30
PNP1¼RCR	5000	2500	1200	3500	1800	1000	4000	2000	1100	2600	1300	700	30
PNP35CR	6000	3000	1500	4300	2100	1200	4100	2100	1100	3200	1600	900	35
PNP1¼CR	6000	3000	1500	4300	2100	1200	4100	2100	1100	3200	1600	900	35
PNP1 7/16CR	6000	3000	1500	4300	2100	1200	4100	2100	1100	3200	1600	900	35
PNP40CR	10700	5300	2900	8000	4000	2200	6800	3400	1900	5200	2600	1400	40
PNP1½CR	10700	5300	2900	8000	4000	2200	6800	3400	1900	5200	2600	1400	40

Table 2 PSF Silver-Lube® four-bolt flange - housing load capacity

RHP designation	Maximum housing load (N) at 20°C						Max. fixing bolt torque (Nm)
	F1			F2			
	Inter-mittent loading	Con-tinuous loading	Cyclical loading	Inter-mittent loading	Con-tinuous loading	Cyclical loading	
PSF20CR	3100	1600	900	1300	700	400	18
PSF¾CR	3100	1600	900	1300	700	400	18
PSF25CR	3500	1700	1000	1300	700	400	25
PSF1CR	3500	1700	1000	1300	700	400	25
PSF30CR	4600	2300	1300	2200	1100	600	30
PSF1 3/16CR	4600	2300	1300	2200	1100	600	30
PSF1¼RCR	4600	2300	1300	2200	1100	600	30
PSF35CR	6200	3100	1700	2600	1300	700	35
PSF1¼CR	6200	3100	1700	2600	1300	700	35
PSF1 7/16CR	6200	3100	1700	2600	1300	700	35
PSF40CR	6200	3100	1700	4000	2000	1100	40
PSF1½CR	6200	3100	1700	4000	2000	1100	40

PSF Series



PSFT Series

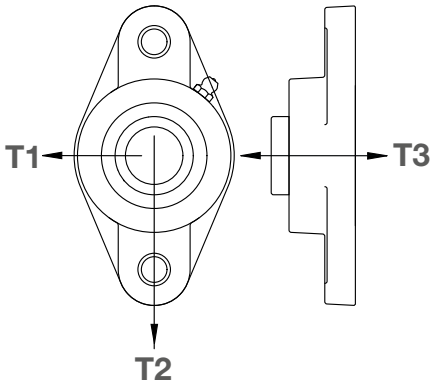


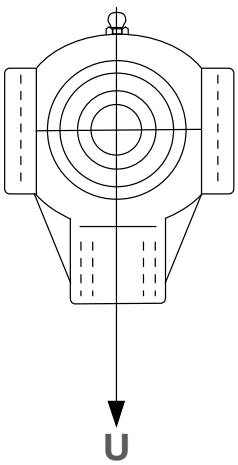
Table 3 PSFT Silver-Lube® two-bolt flange - housing load capacity

RHP designation	Maximum housing load (N) at 20°C									Max. fixing bolt torque (Nm)
	T1			T2			T3			
	Inter-mittent loading	Continuous loading	Cyclical loading	Inter-mittent loading	Continuous loading	Cyclical loading	Inter-mittent loading	Continuous loading	Cyclical loading	
PSFT20CR	4400	2200	1200	1900	900	500	1300	700	400	18
PSFT¾CR	4400	2200	1200	1900	900	500	1300	700	400	18
PSFT25CR	4400	2200	1200	3000	1500	800	1400	700	400	25
PSFT1CR	4400	2200	1200	3000	1500	800	1400	700	400	25
PSFT30CR	5900	2900	1600	3300	1600	900	2000	1000	500	30
PSFT1 3/16CR	5900	2900	1600	3300	1600	900	2000	1000	500	30
PSFT1¼RCR	5900	2900	1600	3300	1600	900	2000	1000	500	30
PSFT35CR	6400	3200	1700	3900	2000	1100	2800	1400	800	35
PSFT1¼CR	6400	3200	1700	3900	2000	1100	2800	1400	800	35
PSFT1 7/16CR	6400	3200	1700	3900	2000	1100	2800	1400	800	35
PSFT40CR	9000	4500	2500	3900	2000	1100	3300	1600	900	40
PSFT1½CR	9000	4500	2500	3900	2000	1100	3300	1600	900	40

Table 4 PST Silver-Lube® take-up - housing load capacity

RHP designation	Maximum housing load (N) at 20°C		
	U Intermittent loading	U Continuous loading	U Cyclical loading
PST20CR	5700	2800	1600
PST¾CR	5700	2800	1600
PST25CR	5400	2700	1500
PST1CR	5400	2700	1500
PST30CR	8100	4000	2300
PST1 3/16CR	8100	4000	2300
PST1¼RCR	8100	4000	2300
PST35CR	7800	3900	2200
PST1¼CR	7800	3900	2200
PST1 7/16CR	7800	3900	2200
PST40CR	8100	4000	2300
PST1½CR	8100	4000	2300

PST Series



Silver-Lube® bearing inserts

Silver-Lube® bearing inserts have martensitic stainless steel rings and balls, and austenitic stainless steel ball cage, flingers and set screws, in addition to durable and heat-resistant silicone rubber seals

The grease in this product is an aluminium complex food grade grease, classified to NSF grade H1. In the event of relubricating being necessary, this type of grease is the first choice replacement.

If an aluminium complex food grade grease is not available, it is essential that any alternative grease is NSF H1 approved and ideally chemically compatible with the original grease. If chemical compatibility cannot be assured, then it is recommended that the original grease is completely flushed out of the system before relubrication. NSK should be consulted where necessary.

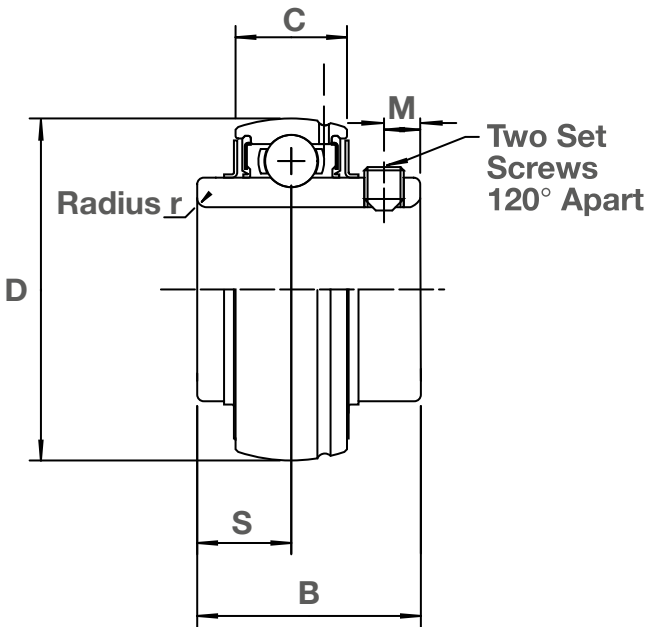


Table 5 Insert designations, dimensions and weights

Units mm

RHP designation	Bore dia	D	C	B	S	r	M	C_r (N)	C_{or} (N)	Weight (Kg)
J1020-20GCR	20	47	17	31.0	12.7	0.5	5.0	9910	5350	0.16
J1020-¾GCR	¾''	47	17	31.0	12.7	0.5	5.0	9910	5350	0.16
J1025-25GCR	25	52	17	34.1	14.3	0.5	5.0	10820	6300	0.20
J1025-1GCR	1''	52	17	34.1	14.3	0.5	5.0	10820	6300	0.20
J1030-30GCR	30	62	19	38.1	15.9	0.5	5.0	15000	9050	0.32
J1030-1³⁄₁₆GCR	1³⁄₁₆''	62	19	38.1	15.9	0.5	5.0	15000	9050	0.32
J1030-1¼GCR	1¼''	62	19	38.1	15.9	0.5	5.0	15000	9050	0.32
J1035-35GCR	35	72	20	42.9	17.5	1.0	6.5	19820	12300	0.48
J1035-1¼GCR	1¼''	72	20	42.9	17.5	1.0	6.5	19820	12300	0.48
J1035-1⁷⁄₁₆GCR	1⁷⁄₁₆''	72	20	42.9	17.5	1.0	6.5	19820	12300	0.48
J1040-40GCR	40	80	21	49.2	19.0	1.0	8.0	22540	14300	0.64
J1040-1½GCR	1½''	80	21	49.2	19.0	1.0	8.0	22540	14300	0.64

Shaft tolerances and permissible speeds

Bearing insert permissible speed is dependent on shaft tolerance. For higher speed applications an ISO h7 shaft tolerance is recommended. An ISO h9 shaft tolerance may be used for low speed applications. For more information see table 6.

Table 6 Tolerances and Speeds

Basic bearing insert	Bearing limiting speed (RPM)	ISO h7 Shaft tolerance high (0.001 mm Units)	ISO h7 Shaft tolerance low (0.001 mm Units)	Bearing limiting speed (RPM)	ISO h9 Shaft tolerance high (0.001 mm Units)	ISO h9 Shaft tolerance low (0.001 mm Units)
J1020	2900	0	-21	1490	0	-52
J1025	2600	0	-21	1300	0	-52
J1030	2180	0	-21	1090	0	-52
J1035	1870	0	-25	940	0	-62
J1040	1650	0	-25	830	0	-62

Materials and tightening torques

Materials

	Parts	Materials
Bearing	Bearing Rings	Martensitic stainless steel (equivalent to SUS440C)
	Ball	Martensitic stainless steel (equivalent to SUS440C)
	Flinger	Austenitic stainless steel (equivalent to SUS302)
	Rubber Seal	Silicone Rubber
	Set Screw	Austenitic stainless steel (equivalent to SUS304)
	Cage	Austenitic stainless steel (equivalent to SUS302)
Bearing housing		Thermo Plastic PBT

Set screw tightening torques

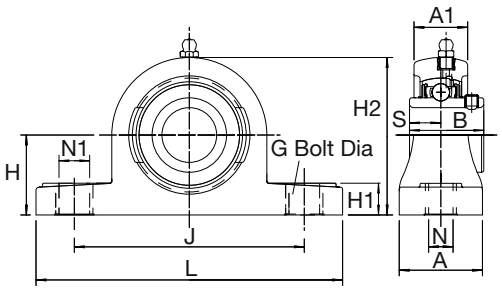
Set screws for Silver-Lube® bearing inserts are manufactured from stainless steel and can fracture if overtightened. The limiting set screw torques listed (in Table 7) should not be exceeded.

Table 7 Recommended tightening torques for set screws

Bearing designation	Designation of set screws	Maximum tightening torque (Nm)
J1020-20GCR	M6 X 6.0 LONG	4
J1020-¾GCR	M6 X 6.0 LONG	4
J1025-25GCR	M6 X 6.0 LONG	4
J1025-1GCR	M6 X 6.0 LONG	4
J1030-30GCR	M6 X 6.0 LONG	4
J1030-1 3/16GCR	M6 X 6.0 LONG	4
J1030-1¼GCR	M6 X 6.0 LONG	4
J1035-35GCR	M8 X 8.0 LONG	8
J1035-1¼GCR	M8 X 8.0 LONG	8
J1035-1 7/16GCR	M8 X 8.0 LONG	8
J1040-40GCR	M8 X 8.0 LONG	8
J1040-1½GCR	M8 X 8.0 LONG	8

Unit dimensions

Table 8: PNP Silver-Lube® pillow block - unit dimensions



PNP Series

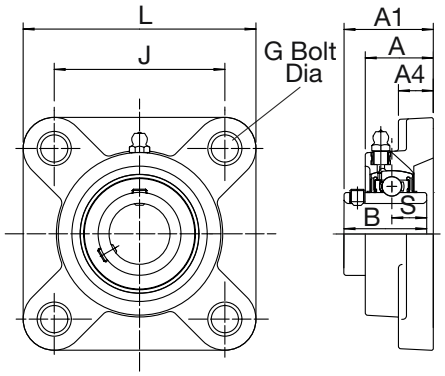
Shaft diameter		RHP designation	Basic bearing insert	Housing group	Dimensions (mm)				
mm	inches				L	H	H1	H2	J
20		**PNP20CR**	J1020	2	127.2	33.3	14.2	65.9	94.9
	¾	**PNP¾CR**	J1020	2	127.2	33.3	14.2	65.9	94.9
25		**PNP25CR**	J1025	3	140.2	36.5	14.5	71.9	104.9
	1	**PNP1CR**	J1025	3	140.2	36.5	14.5	71.9	104.9
30		**PNP30CR**	J1030	4	162.2	42.9	17.8	83.9	118.9
	1 3/16	**PNP1 3/16CR**	J1030	4	162.2	42.9	17.8	83.9	118.9
	1¼	**PNP1¼RCR**	J1030	4	162.2	42.9	17.8	83.9	118.9
35		**PNP35CR**	J1035	5	167.2	47.6	18.0	94.9	126.9
	1¼	**PNP1¼CR**	J1035	5	167.2	47.6	18.0	94.9	126.9
	1 7/16	**PNP1 7/16CR**	J1035	5	167.2	47.6	18.0	94.9	126.9
40		**PNP40CR**	J1040	6	184.2	49.2	19.5	98.9	136.8
	1½	**PNP1½CR**	J1040	6	184.2	49.2	19.5	98.9	136.8

All dimensions in mm except inch shaft sizes

Dimensions (mm)							Weight kg
N	N1	G	A	A1	B	S	
11.0	14.2	M10	37.8	22.5	31.0	12.7	0.27
11.0	14.2	M10	37.8	22.5	31.0	12.7	0.27
11.0	14.2	M10	37.8	24.5	34.0	14.3	0.39
11.0	14.2	M10	37.8	24.5	34.0	14.3	0.39
14.0	18.2	M12	45.8	27.0	38.1	15.9	0.52
14.0	18.2	M12	45.8	27.0	38.1	15.9	0.52
14.0	18.2	M12	45.8	27.0	38.1	15.9	0.52
14.0	18.2	M12	47.8	32.5	42.9	17.5	0.72
14.0	18.2	M12	47.8	32.5	42.9	17.5	0.72
14.0	18.2	M12	47.8	32.5	42.9	17.5	0.72
14.0	18.2	M12	53.8	36.0	49.2	19.0	0.99
14.0	18.2	M12	53.8	36.0	49.2	19.0	0.99

Unit dimensions

Table 9: PSF Silver-Lube® four-bolt flange - unit dimensions



PSF Series

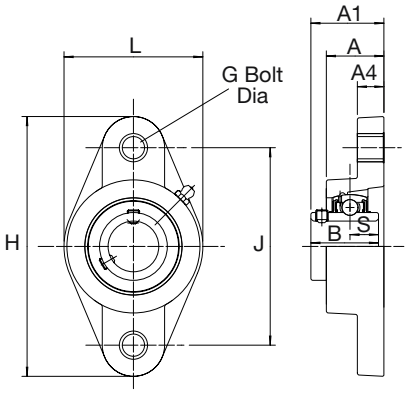
Shaft diameter		RHP designation	Basic bearing insert	Housing group	Dimensions (mm)		
mm	inches				L	J	G
20		**PSF20CR**	J1020	2	86.5	63.5	M10
	¾	**PSF¾CR**	J1020	2	86.5	63.5	M10
25		**PSF25CR**	J1025	3	95.0	70.0	M10
	1	**PSF1CR**	J1025	3	95.0	70.0	M10
30		**PSF30CR**	J1030	4	107.5	83.0	M10
	1 3/16	**PSF1 3/16CR**	J1030	4	107.5	83.0	M10
	1¼	**PSF1¼RCR**	J1030	4	107.5	83.0	M10
35		**PSF35CR**	J1035	5	117.5	92.0	M12
	1¼	**PSF1¼CR**	J1035	5	117.5	92.0	M12
	1 7/16	**PSF1 7/16CR**	J1035	5	117.5	92.0	M12
40		**PSF40CR**	J1040	6	130.5	102.0	M12
	1½	**PSF1½CR**	J1040	6	130.5	102.0	M12

All dimensions in mm except inch shaft sizes

Dimensions (mm)					Weight kg
A	A1	A4	B	S	
27.8	36.3	13.4	31.0	12.7	0.28
27.8	36.3	13.4	31.0	12.7	0.28
27.9	36.7	14.3	34.0	14.3	0.34
27.9	36.7	14.3	34.0	14.3	0.34
31.5	41.4	14.3	38.1	15.9	0.50
31.5	41.4	14.3	38.1	15.9	0.50
31.5	41.4	14.3	38.1	15.9	0.50
34.8	46.9	15.5	42.9	17.5	0.74
34.8	46.9	15.5	42.9	17.5	0.74
34.8	46.9	15.5	42.9	17.5	0.74
37.5	53.2	17.1	49.2	19.0	0.98
37.5	53.2	17.1	49.2	19.0	0.98

Unit dimensions

Table 10: PSFT Silver-Lube® two-bolt flange - unit dimensions



PSFT Series

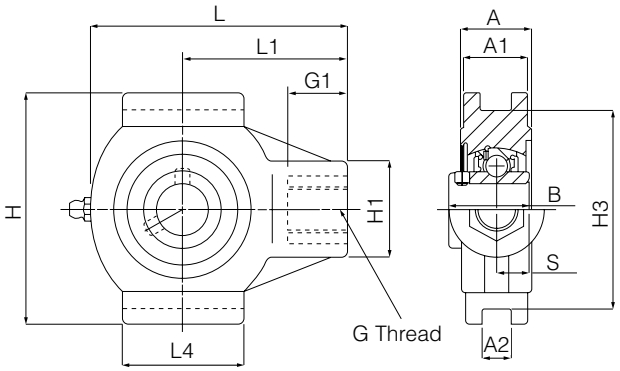
Shaft diameter		RHP designation	Basic bearing insert	Housing group	Dimensions (mm)		
mm	inches				L	H	J
20		**PSFT20CR**	J1020	2	64.1	113.3	90.0
	¾	**PSFT¾CR**	J1020	2	64.1	113.3	90.0
25		**PSFT25CR**	J1025	3	68.4	130.3	99.0
	1	**PSFT1CR**	J1025	3	68.4	130.3	99.0
30		**PSFT30CR**	J1030	4	80.1	148.3	117.0
	1 3/16	**PSFT1 3/16CR**	J1030	4	80.1	148.3	117.0
	1¼	**PSFT1¼RCR**	J1030	4	80.1	148.3	117.0
35		**PSFT35CR**	J1035	5	90.1	163.3	130.0
	1¼	**PSFT1¼CR**	J1035	5	90.1	163.3	130.0
	1 7/16	**PSFT1 7/16CR**	J1035	5	90.1	163.3	130.0
40		**PSFT40CR**	J1040	6	100.1	175.3	144.0
	1½	**PSFT1½CR**	J1040	6	100.1	175.3	144.0

All dimensions in mm except inch shaft sizes

Dimensions (mm)						Weight kg
G	A	A1	A4	B	S	
M10	26.5	33.7	11.4	31.0	12.7	0.24
M10	26.5	33.7	11.4	31.0	12.7	0.24
M10	29.1	36.7	13.4	34.0	14.3	0.30
M10	29.1	36.7	13.4	34.0	14.3	0.30
M10	30.5	41.2	13.4	38.1	15.9	0.44
M10	30.5	41.2	13.4	38.1	15.9	0.44
M10	30.5	41.2	13.4	38.1	15.9	0.44
M12	32.8	43.4	16.1	42.9	17.5	0.64
M12	32.8	43.4	16.1	42.9	17.5	0.64
M12	32.8	43.4	16.1	42.9	17.5	0.64
M12	37.5	51.7	20.0	49.2	19.0	0.89
M12	37.5	51.7	20.0	49.2	19.0	0.89

Unit dimensions

Table 11: PST Silver-Lube® take up units - unit dimensions



PST Series

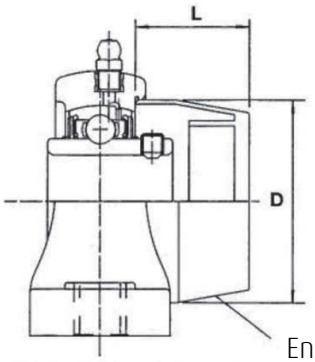
Shaft diameter		RHP designation	Basic bearing insert	Housing group	Dimensions (mm)				
mm	inches				L	L1	L4	H	H1
20		**PST20CR**	J1020	2	99.0	64.0	47.0	88.0	35.0
	¾	**PST¾CR**	J1020	2	99.0	64.0	47.0	88.0	35.0
25		**PST25CR**	J1025	3	99.0	64.0	47.0	88.0	35.0
	1	**PST1CR**	J1025	3	99.0	64.0	47.0	88.0	35.0
30		**PST30CR**	J1030	4	125.0	76.0	63.0	102.0	40.0
	1 3/16	**PST1 3/16CR**	J1030	4	125.0	76.0	63.0	102.0	40.0
	1¼	**PST1¼RCR**	J1030	4	125.0	76.0	63.0	102.0	40.0
35		**PST35CR**	J1035	5	125.0	76.0	63.0	102.0	40.0
	1¼	**PST1¼CR**	J1035	5	125.0	76.0	63.0	102.0	40.0
	1 7/16	**PST1 7/16CR**	J1035	5	125.0	76.0	63.0	102.0	40.0
40		**PST40CR**	J1040	6	140.0	85.0	80.0	114.0	40.0
	1½	**PST1½CR**	J1040	6	140.0	85.0	80.0	114.0	40.0

All dimensions in mm except inch shaft sizes

Dimensions (mm)								Weight kg
H3	G	G1	A	A1	A2	B	S	
75.8	M16X2.00	22.5	27.5	24.5	12.2	31.0	12.7	0.32
75.8	M16X2.00	22.5	27.5	24.5	12.2	31.0	12.7	0.32
75.8	M16X2.00	22.5	27.5	24.5	12.2	34.0	14.3	0.36
75.8	M16X2.00	22.5	27.5	24.5	12.2	34.0	14.3	0.36
88.8	M16X2.00	22.5	34.5	30.0	12.2	38.1	15.9	0.53
88.8	M16X2.00	22.5	34.5	30.0	12.2	38.1	15.9	0.53
88.8	M16X2.00	22.5	34.5	30.0	12.2	38.1	15.9	0.53
88.8	M16X2.00	22.5	34.5	30.0	12.2	42.9	17.5	0.74
88.8	M16X2.00	22.5	34.5	30.0	12.2	42.9	17.5	0.74
88.8	M16X2.00	22.5	34.5	30.0	12.2	42.9	17.5	0.74
101.8	M16X2.00	22.5	34.0	32.0	16.2	49.2	19.0	1.00
101.8	M16X2.00	22.5	34.0	32.0	16.2	49.2	19.0	1.00

End Covers

Polypropylene end covers are available to fit all Silver-Lube® housings. End covers can be used at temperatures ranging from -20°C to +90°C. They may be used as additional protection for the bearing in adverse environmental conditions as well as an aid to meeting safety requirements.



End cover

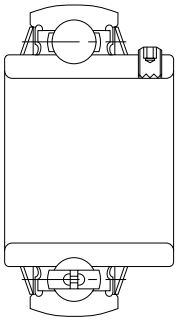
HOUSING GROUP	END COVER REFERENCE	DIMENSION D	DIMENSION L
Group 2	P20P	50.0	23.0
Group 3	P25P	55.0	25.0
Group 4	P30P	64.0	30.0
Group 5	P35P	74.0	32.0
Group 6	P40P	84.0	37.0

All dimensions in mm

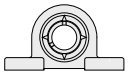
Molded-Oil Inserts with Stainless Steel Housings

Molded-Oil stainless steel unit references

Insert Type



Housing Type

	Page	Series
	**114**	F-UCPM2
	**116**	F-UCFM2

Molded-Oil insert references

F	-	UC	2	05	/	LP99

F — **Stainless Steel Bearing**

UC — **Bearing type code**

2 — **Diameter series code**

05 — **Bore diameter number** (bearing bore diameter)

LP99 — **Molded-Oil lubrication system**

Ball bearing units stainless series

Introduction

This series provides corrosion resistance and longer lubrication life in a clean unit with low torque characterisitics.

NSK ball bearing units in the stainless series feature ball bearings inserted into housings made of stainless that provide superior resistance to corrosion as compared to standard series cast iron units. This series is especially useful in a wide variety of applications because of the rust-free properties of the housing.

Molded-Oil bearings are lubricated with NSK's own oil-impregnated material, Molded-Oil. Molded-Oil consists of lubricating oil and polyolefin resin that has an affinity for oil. Oil slowly seeping from this material provides ample lubrication to the bearing for extended periods.

As oil seeping from the Molded-Oil inside the bearing provides sufficient lubrication, troublesome oil refilling is not required and contamination of the surrounding environment is prevented.

Prior to filling the bearings with Molded-Oil, their interior surfaces are specially treated. As a result, bearing torque is not much higher than that of grease-lubricated bearings.

The basic dimensions are the same as current NSK units and are also compatible with units from other manufacturers ISO standard.

Materials

	Parts	Materials
Bearing	Raceways Ball Flinger, Retainer Rubber Seal Set Screw (W shape screw head)	Martensitic stainless steel (equivalent to SUS440C) Martensitic stainless steel (equivalent to SUS440C) Austenitic stainless steel (equivalent to SUS304) Nitrile rubber Martensitic stainless steel (equivalent to SUS410)
Bearing housing		Austenitic stainless steel casting (SCS13)

Recommended operating temperature and allowable speed

Molded-Oil bearings are recommended to operate from -15 to +80˚C. However, operating temperature should be below +60˚C when the bearing is operated under continuous use.

dn value: $12 \cdot 10^4$ max

(dn = bore diameter in mm x speed in min^{-1})

Remarks: This recommended operating temperature range and allowable speed is applied to all bearings with Molded-Oil bearings. Contact NSK when your application exceeds these recommendations.

Recommended tightening torques for set screws

Bearing designation (F-UC)	Designation of set screws (W shape on screw head)	Maximum tightening torque (Nm)
204, 205	M5 x 0.8	3.9
206	M6 x 0.75	4.9
207	M6 x 0.75	5.8
208~210	M8 x 1	7.8

Inner ring tolerances

Units: µm

Nominal bore diameter d		Bore diameter			Width		Radial run-out (ref.)
		ΔdmpDeviations		ΔVdp variations	ΔBs deviations		
over mm	incl. mm	high	low	max	high	low	max
18	31.750	+18	0	12	0	-120	18
31.750	50.800	+21	0	14	0	-120	20

ΔdmpDeviations : Mean bore diameter deviation.
ΔVdp : Bore diameter variation.
ΔBs : Inner ring width deviation.

Outer ring tolerances

Units: µm

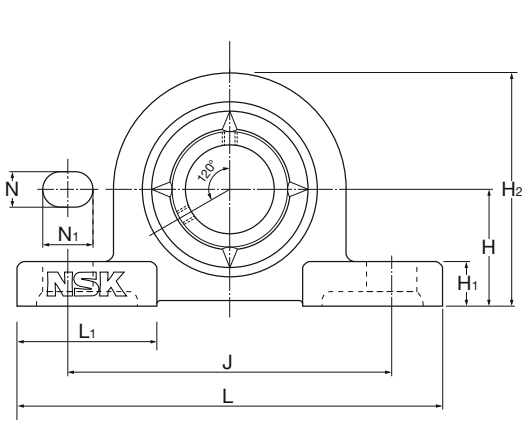
Nominal outside diameter D		ΔDm deviations		Radial run-out (ref.)
over mm	incl. mm	high	low	max
30	50	0	-11	20
50	80	0	-13	25
80	120	0	-15	35

ΔDm : Mean outside diameter deviation.

The lower deviation figure of ΔDm does not apply within a distance of ¼ the width of the outer ring from either side.

Pillow type ball bearing unit

F-UCPM2 series: Cylindrical bore, set screw type with Molded-Oil

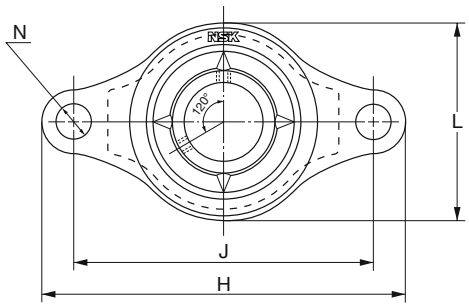


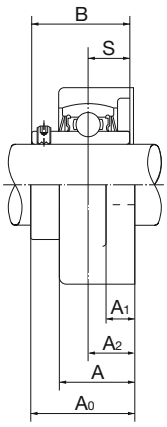
Shaft diameter	Unit number	Dimensions (mm)										
mm		H	L	J	A	N	N_1	H_1	H_2	L_1	B	S
20	**F-UCPM204D0/LP99**	33.3	120	95	30	12	14	11	64	42	31.0	12.7
25	**F-UCPM205D0/LP99**	36.5	130	105	30	12	14	12	70	42	34.1	14.3
30	**F-UCPM206D0/LP99**	42.9	155	121	36	17	20	13	82	54	38.1	15.9
35	**F-UCPM207D0/LP99**	47.6	161	127	38	17	20	14	92	54	42.9	17.5
40	**F-UCPM208D0/LP99**	49.2	171	137	40	17	20	14	98	52	49.2	19
45	**F-UCPM209D0/LP99**	54	180	146	40	17	20	14	105	60	49.2	19
50	**F-UCPM210D0/LP99**	57.2	195	159	45	19	22	16	114	65	51.6	19

Bolt size	Bearing number	Housing number	Mass of unit (Ref.) kg
M10	F-UC204/LP99	PM204	0.6
M10	F-UC205/LP99	PM205	0.7
M14	F-UC206/LP99	PM206	1.0
M14	F-UC207/LP99	PM207	1.3
M14	F-UC208/LP99	PM208	1.8
M14	F-UC209/LP99	PM209	2.1
M16	F-UC210/LP99	PM210	2.5

Rhombus type ball bearing unit

F-UCFM2 series: Cylindrical bore, set screw type with Molded-Oil

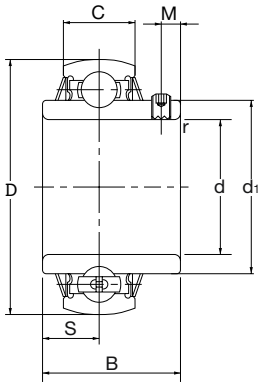




Shaft diameter	Unit number	Dimensions (mm)									
mm		H	J	A_2	A_1	A	N	L	A_0	B	S
20	**F-UCFM204D0/LP99**	112	90	15	10	25.5	12	60	33.3	31.0	12.7
25	**F-UCFM205D0/LP99**	127	99	16	10	26.5	16	68	35.8	34.1	14.3
30	**F-UCFM206D0/LP99**	145	117	18	10	30	16	80	40.2	38.1	15.9
35	**F-UCFM207D0/LP99**	158	130	19	12	32	16	90	44.4	42.9	17.5
40	**F-UCFM208D0/LP99**	172	144	21	12	35	16	100	51.2	49.2	19
45	**F-UCFM209D0/LP99**	180	148	22	13	36	19	108	52.2	49.2	19
50	**F-UCFM210D0/LP99**	189	157	22	13	37	19	115	54.6	51.6	19

Bolt size	Bearing number	Housing number	Mass of unit (Ref.) kg
M10	F-UC204/LP99	FM204	0.5
M14	F-UC205/LP99	FM205	0.6
M14	F-UC206/LP99	FM206	0.9
M14	F-UC207/LP99	FM207	1.2
M14	F-UC208/LP99	FM208	1.6
M16	F-UC209/LP99	FM209	1.9
M16	F-UC210/LP99	FM210	2.2

Stainless insert bearing
Cylindrical bore, set screw type with Molded-Oil



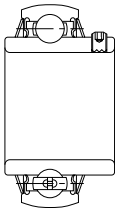
Shaft diameter	Unit number	Dimensions (mm)			
mm		D	B	C	r_{min}
20	**F-UC204/LP99**	47	31.0	17	1
25	**F-UC205/LP99**	52	34.1	17	1
30	**F-UC206/LP99**	62	38.1	19	1
35	**F-UC207/LP99**	72	42.9	20	1.5
40	**F-UC208/LP99**	80	49.2	21	1.5
45	**F-UC209/LP99**	85	49.2	22	1.5
50	**F-UC210/LP99**	90	51.6	24	1.5

Dimensions (mm)			Basic load rating N		Mass of unit (Ref.)
S	M	d1	Dynamic C_r	Static C_{or}	kg
12.7	4.5	29.6	9900	6650	0.17
14.3	5	33.9	10800	7850	0.20
15.9	5	40.8	15000	11300	0.33
17.5	6	46.8	19700	15300	0.49
19	8	53.0	22400	17800	0.65
19	8	57.5	25200	20400	0.70
19	9	62.4	27000	23300	0.80

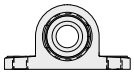
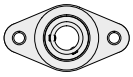
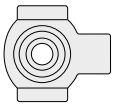
Life-Lube® Bearing Units

Life-Lube® unit references

Insert Type



Housing Type

	Page	125
	**126**	PNP/LP99
	**128**	PSF/LP99
	**130**	PSFT/LP99
	**132**	PST/LP99

Life-Lube® insert references

F	-	UC	2	05	/	LP99

F — **Stainless Steel Bearing**

UC — **Bearing type code**

2 — **Diameter series code**

05 — **Bore diameter number** (bearing bore diameter)

LP99 — **Molded-Oil lubrication system**

Life-Lube® product range

Introduction

The Life-Lube® series combine the corrosion resistant properties of Silver-Lube® housings with the excellent sealing and lubricating properties of Molded-Oil inserts. Life-Lube® units are specifically for use in industries where contact with water and process fluids is unavoidable, excellent chemical resistance is required and a longer lubrication life is necessary.

Life-Lube® units are available in pillow block, two-bolt flange, four-bolt flange and take-up unit configurations and are capable of accommodating initial misalignment from mounting errors. In operation, the units have proven reliability in the most hostile applications.

Life-Lube® housings are made from PBT thermoplastic resins which, in addition to being non-corrodible, are resistant to detergents and a wide range of chemicals. The housings are paint and coating free which prevents chipping or flaking and have smooth surfaces to assist in washdowns.

Life-Lube® bearing inserts are made from stainless steel which provides superior corrosion resistance. The inserts are lubricated with NSK's own oil impregnated polymer, Molded-Oil. Oil slowly seeping from this material provides ample lubrication for the bearing for extended periods. The Molded-Oil solid lubricant resists contamination and water washout and does away with the need for relubrication. Stainless steel flingers and nitrile rubber seals are fitted as standard.

Housing strength

Housing load carrying capacity varies depending on the application loading regime, which may be intermittent, continuous or cyclical. Maximum housing loads are given in tables 1, 2, 3 and 4. These loads must not be exceeded without prior consultation with NSK.

Published housing maximum load capacities do not allow for any reduction in housing strength caused by exposure of the housing to chemicals, water, steam, heat, ultraviolet light or any combination of these factors. If any of these factors are present in the application the designer or end-user must establish the effect of these exposures and reduce the published maximum housing load accordingly.

To maximise load carrying capacity it is recommended that washers are used with the fixing bolts. Tables 1, 2 and 3 also detail maximum fixing bolt tightening torques.

Static electricity generation

Static electricity may be generated by Life-Lube® bearing units under certain application conditions.

Life-Lube® bearings are therefore not recommended for use in explosive or flammable environments. If Life-Lube® bearing units are used in flammable or explosive applications the bearing insert must be earthed.

Housing strength

Table 1 PNP Life-Lube® pillow block - housing load capacity

RHP designation	Maximum housing load (N) at 20°C												Max. fixing bolt torque (Nm)
	P1			P2			P3			P4			
	Inter-mittent loading	Continu-ous load-ing	Cyclical loading	Inter-mittent loading	Continu-ous load-ing	Cyclical loading	Inter-mittent loading	Continu-ous load-ing	Cyclical loading	Inter-mittent loading	Continu-ous load-ing	Cyclical loading	
PNP20/LP99	3500	1700	800	2800	1400	800	2600	1300	700	1300	700	400	18
PNP25/LP99	4000	2000	1000	3100	1500	800	2600	1300	700	1700	900	500	25
PNP30/LP99	5000	2500	1200	3500	1800	1000	4000	2000	1100	2600	1300	700	30
PNP35/LP99	6000	3000	1500	4300	2100	1200	4100	2100	1100	3200	1600	900	35
PNP40/LP99	10700	5300	2900	8000	4000	2200	6800	3400	1900	5200	2600	1400	40

Table 2 PSF Life-Lube® four-bolt flange - housing load capacity

RHP designation	Maximum housing load (N) at 20°C						Max. fixing bolt torque (Nm)
	F1			F2			
	Inter-mittent loading	Con-tinuous loading	Cyclical loading	Inter-mittent loading	Con-tinuous loading	Cyclical loading	
PSF20/LP99	3100	1600	900	1300	700	400	18
PSF25/LP99	3500	1700	1000	1300	700	400	25
PSF30/LP99	4600	2300	1300	2200	1100	600	30
PSF35/LP99	6200	3100	1700	2600	1300	700	35
PSF40/LP99	6200	3100	1700	4000	2000	1100	40

Table 3 PSFT Life-Lube® two-bolt flange - housing load capacity

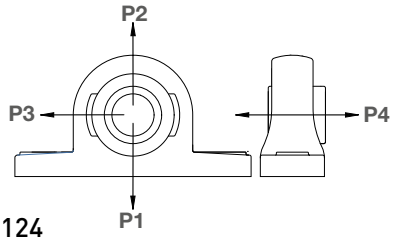
RHP designation	Maximum housing load (N) at 20°C									Max. fixing bolt torque (Nm)
	T1			T2			T3			
	Inter-mittent loading	Continuous loading	Cyclical loading	Inter-mittent loading	Continuous loading	Cyclical loading	Inter-mittent loading	Continuous loading	Cyclical loading	
PSFT20/LP99	4400	2200	1200	1900	900	500	1300	700	400	18
PSFT25/LP99	4400	2200	1200	3000	1500	800	1400	700	400	25
PSFT30/LP99	5900	2900	1600	3300	1600	900	2000	1000	500	30
PSFT35/LP99	6400	3200	1700	3900	2000	1100	2800	1400	800	35
PSFT40/LP99	9000	4500	2500	3900	2000	1100	3300	1600	900	40

Table 4 PST Life-Lube® take-up - housing load capacity

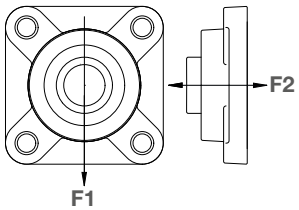
RHP designation	Maximum housing load (N) at 20°C		
	U		
	Intermittent loading	Continuous loading	Cyclical loading
PST20/LP99	5700	2800	1600
PST25/LP99	5400	2700	1500
PST30/LP99	8100	4000	2300
PST35/LP99	7800	3900	2200
PST40/LP99	8100	4000	2300

Note that there is no maximum fixing bolt torque applicable for take-up units.

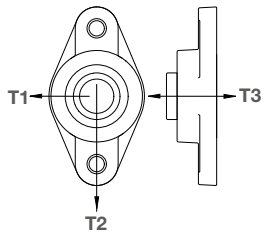
PNP Series



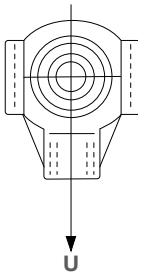
PSF Series



PSFT Series



PST Series



Life-Lube® bearing inserts

Life-Lube® bearing inserts have martensitic stainless steel rings, balls and set screws, and austenitic stainless steel cage and flingers.

Life-Lube® bearing inserts are lubricated with NSK's own oil-impregnated material, Molded-Oil. Molded-Oil consists of lubricating oil and polyolefin resin that has an affinity for oil. Oil slowly seeping from this material provides ample lubrication to the bearing for extended periods. Relubrication is not necessary for Life-Lube® Molded-Oil inserts.

Recommended operating temperature and allowable speed

Molded-Oil inserts are recommended to operate from -15 to +80˚C. However, operating temperature should be below +60˚C when the bearing is operated under continuous use.
Allowable speed:
dn value : 12 x 10^4 max
(dn = bore diameter in mm x speed in rpm)

Remarks: This recommended operating temperature range and allowable speed applies to all units with Molded-Oil inserts. Contact NSK when your application exceeds these recommendations.

Materials

	Parts	Materials
Bearing	Bearing Rings	Martensitic stainless steel (equivalent to SUS440C)
	Ball	Martensitic stainless steel (equivalent to SUS440C)
	Flinger	Austenitic stainless steel (equivalent to SUS302)
	Seal	Nitrile rubber
	Set Screw	Martensitic stainless steel (equivalent to SUS410)
Bearing housing		Thermo Plastic PBT

Set screw tightening torques

Set screws for Life-Lube® bearing inserts are manufactured from stainless steel and can fracture if overtightened. The limiting set screw torques listed in Table 5 should not be exceeded.

Recommended tightening torques for set screws

Insert designation	Designation of set screws	Maximum tightening torque (Nm)
F-UC204/LP99	M5 x 0.8	3.9
F-UC205/LP99	M5 x 0.8	3.9
F-UC206/LP99	M6 x 0.75	4.9
F-UC207/LP99	M6 x 0.75	5.8
F-UC208/LP99	M8 x 1	7.8

Inner ring tolerances

Units: µm

Nominal bore diameter d		Bore diameter			Width		Radial runout (ref.)
		ΔdmpDeviations		ΔVdp variations	ΔBs deviations		
over mm	incl. mm	high	low	max	high	low	max
18	31.750	+18	0	12	0	-120	18
31.750	50.800	+21	0	14	0	-120	20

Δdmp : Mean bore diameter deviation.
ΔVdp : Bore diameter variation.
ΔBs : Inner ring width deviation.

Outer ring tolerances

Units: µm

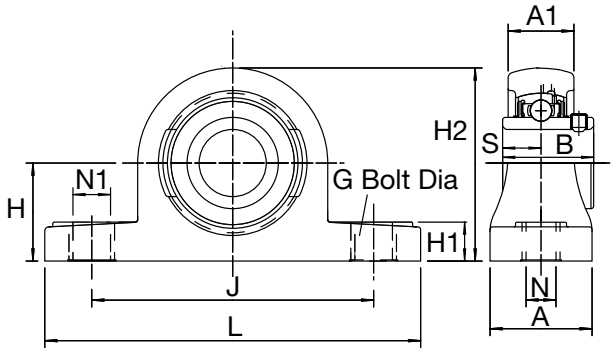
Nominal outside diameter D		ΔDm deviations		Radial run-out (ref.)
over mm	incl. mm	high	low	max
30	50	0	-11	20
50	80	0	-13	25
80	120	0	-15	35

ΔDm : Mean outside diameter deviation.

The lower deviation figure of ΔDm does not apply within a distance of ¼ the width of the outer ring from either side.

Unit dimensions

Table 1: PNP/LP99 Life-Lube® pillow block - unit dimensions



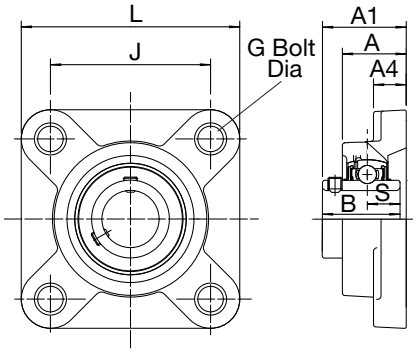
PNP/LP99 Series

Shaft diameter	RHP designation	Basic insert	Housing group	Dimensions (mm)			
mm				L	H	H1	H2
20	**PNP20/LP99**	F-UC204/LP99	2	127.2	33.3	14.2	65.9
25	**PNP25/LP99**	F-UC205/LP99	3	140.2	36.5	14.5	71.9
30	**PNP30/LP99**	F-UC206/LP99	4	162.2	42.9	17.8	83.9
35	**PNP35/LP99**	F-UC207/LP99	5	167.2	47.6	18.0	94.9
40	**PNP40/LP99**	F-UC208/LP99	6	184.2	49.2	19.5	98.9

Dimensions (mm)								Weight kg
J	N	N1	G	A	A1	B	S	
94.9	11	14.2	M10	37.8	22.5	31.0	12.7	0.27
104.9	11	14.2	M10	37.8	24.5	34.0	14.3	0.39
118.9	14	18.2	M12	45.8	27.0	38.1	15.9	0.52
126.9	14	18.2	M12	47.8	32.5	42.9	17.5	0.72
136.8	14	18.2	M12	53.8	36.0	49.2	19.0	0.99

Unit dimensions

Table 2: PSF/LP99 Life-Lube® four-bolt flange - unit dimensions



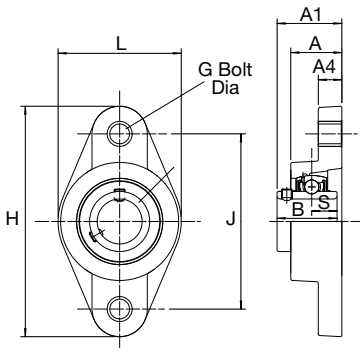
PSF/LP99 Series

Shaft diameter	RHP designation	Basic insert	Housing group	Dimensions (mm)		
mm				L	J	G
20	**PSF20/LP99**	F-UC204/LP99	2	86.5	63.5	M10
25	**PSF25/LP99**	F-UC205/LP99	3	95.0	70.0	M10
30	**PSF30/LP99**	F-UC206/LP99	4	107.5	83.0	M10
35	**PSF35/LP99**	F-UC207/LP99	5	117.5	92.0	M12
40	**PSF40/LP99**	F-UC208/LP99	6	130.5	102.0	M12

Dimensions (mm)					Weight kg
A	A1	A4	B	S	
27.8	36.3	13.4	31.0	12.7	0.28
27.9	36.7	14.3	34.0	14.3	0.34
31.5	41.4	14.3	38.1	15.9	0.50
34.8	46.9	15.5	42.9	17.5	0.74
37.5	53.2	17.1	49.2	19.0	0.99

Unit dimensions

Table 3: PSFT/LP99 Life-Lube® two-bolt flange - unit dimensions



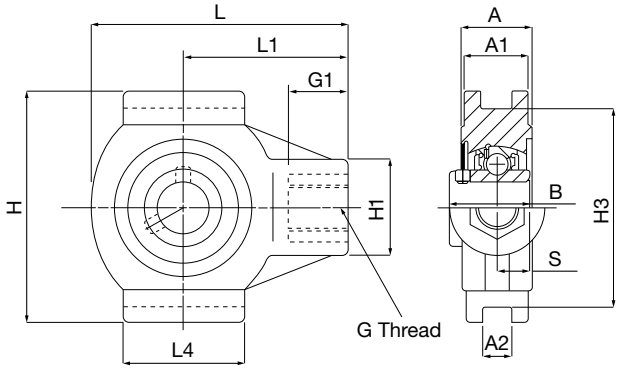
PSFT/LP99 SERIES

Shaft diameter	RHP designation	Basic insert	Housing group	Dimensions (mm)		
mm				L	H	J
20	**PSFT20/LP99**	F-UC204/LP99	2	64.1	113.3	90.0
25	**PSFT25/LP99**	F-UC205/LP99	3	68.4	130.3	99.0
30	**PSFT30/LP99**	F-UC206/LP99	4	80.1	148.3	117.0
35	**PSFT35/LP99**	F-UC207/LP99	5	90.1	163.3	130.0
40	**PSFT40/LP99**	F-UC208/LP99	6	100.1	175.3	144.0

Dimensions (mm)						Weight kg
G	A	A1	A4	B	S	
M10	26.5	33.7	11.4	31.0	12.7	0.24
M10	29.1	36.7	13.4	34.0	14.3	0.30
M10	30.5	41.2	13.4	38.1	15.9	0.44
M12	32.8	43.4	16.1	42.9	17.5	0.64
M12	37.5	51.7	20.0	49.2	19.0	0.89

Unit dimensions

Table 4: PST/LP99 Life-Lube® take up - unit dimensions



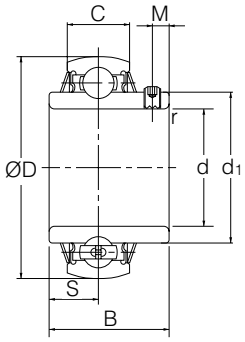
PST/LP99 Series

Shaft diameter	RHP designation	Basic insert	Housing group	Dimensions (mm)				
mm				L	L1	L4	H	H1
20	**PST20/LP99**	F-UC204/LP99	2	99.0	64.0	47.0	88.0	35.0
25	**PST25/LP99**	F-UC205/LP99	3	99.0	64.0	47.0	88.0	35.0
30	**PST30/LP99**	F-UC206/LP99	4	125.0	76.0	63.0	102.0	40.0
35	**PST35/LP99**	F-UC207/LP99	5	125.0	76.0	63.0	102.0	40.0
40	**PST40/LP99**	F-UC208/LP99	6	140.0	85.0	80.0	114.0	40.0

Dimensions (mm)								Weight kg
H3	G	G1	A	A1	A2	B	S	
75.8	M16X2.00	22.5	27.5	24.5	12.2	31.0	12.7	0.32
75.8	M16X2.00	22.5	27.5	24.5	12.2	34.0	14.3	0.36
88.8	M16X2.00	22.5	34.5	30.0	12.2	38.1	15.9	0.53
88.8	M16X2.00	22.5	34.5	30.0	12.2	42.9	17.5	0.74
101.8	M16X2.00	22.5	34.0	32.0	16.2	49.2	19.0	1.00

Life-Lube® insert bearing

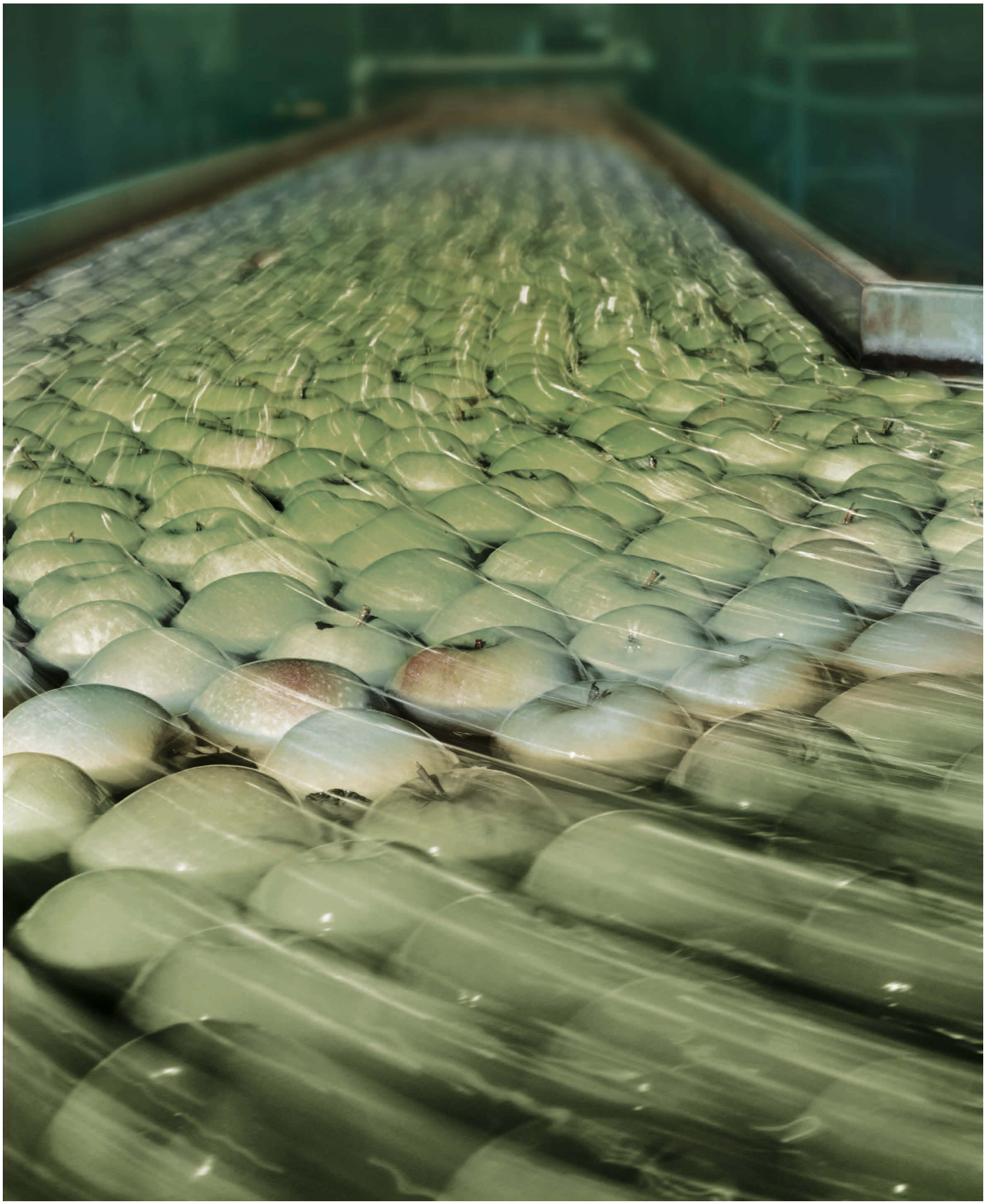
Cylindrical bore, set screw type with Molded-Oil



Shaft diameter	Unit number	Dimensions (mm)			
mm		D	B	C	r_{min}
20	**F-UC204/LP99**	47	31	17	1
25	**F-UC205/LP99**	52	34.1	17	1
30	**F-UC206/LP99**	62	38.1	19	1
35	**F-UC207/LP99**	72	42.9	20	1.5
40	**F-UC208/LP99**	80	49.2	21	1.5
45	**F-UC209/LP99**	85	49.2	22	1.5

Dimensions (mm)			Basic load rating N		Mass (approx.)
S	M	d1	Dynamic C_r	Static C_{or}	kg
12.7	4.5	29.6	9900	6650	0.17
14.3	5	33.9	10800	7850	0.20
15.9	5	40.8	15000	11300	0.33
17.5	6	46.8	19700	15300	0.49
19	8	53.0	22400	17800	0.65
19	8	57.5	25200	20400	0.70

Special Products and Bearing Solutions



Additional products

By design the Self-Lube® family of mounted units can be combined to form alternative ranges of insert and housing depending on customer requirements. This is relatively straightforward but NSK should always be consulted.

In addition NSK recognises the need for 'tailor made' solutions and is always willing to help customers who have a requirement for something out of the ordinary, commensurate with meeting certain price and volume criteria.

NSK has facilities to make special batches of product combinations such as:

- Alternative insert / housing combinations
- Special grease types and grease fills
- Alternative seal combinations – flinger seals, triple lip seals and shields

Please contact NSK with your requirements.

HLT Self-Lube®

HLT Self Lube® inserts are designed to operate reliably at extreme temperatures, within the range –40°C to +180°C. HLT inserts are available across the entire Self-Lube® range.

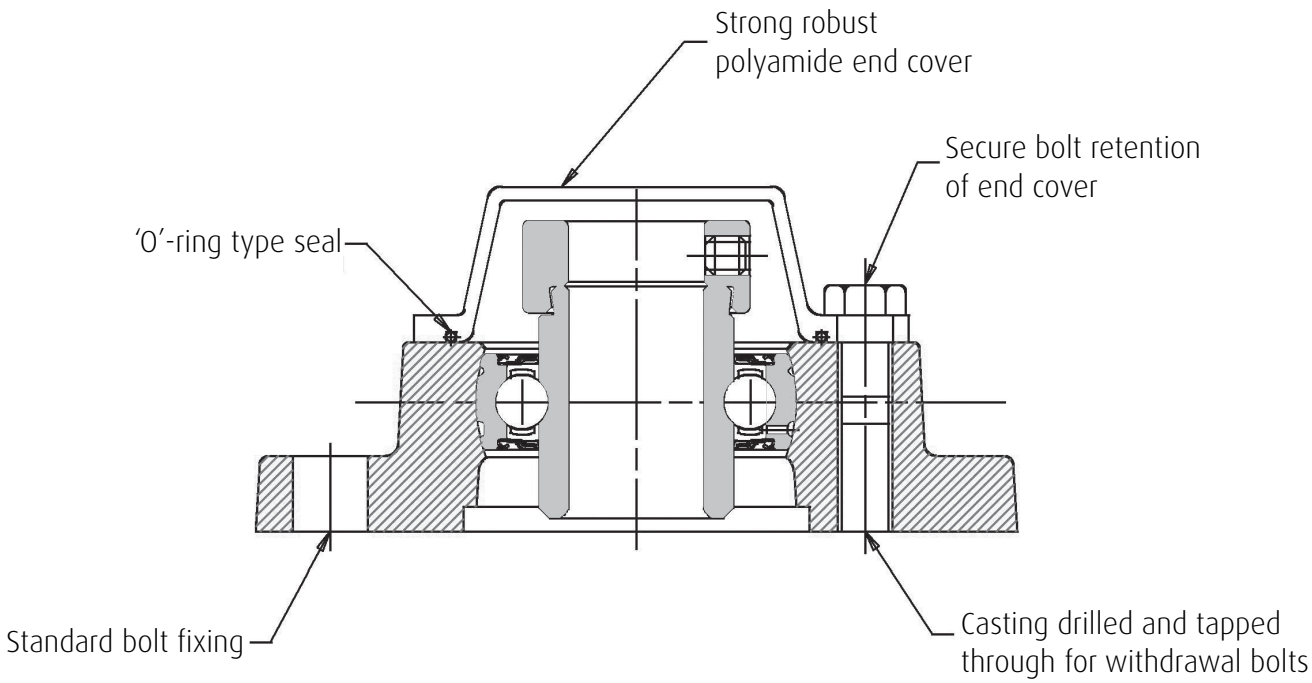
HLT Inserts have:

- High strength steel cage
- Special internal geometry
- High performance Kluber grease
- Silicone seals
- Optional protector
- Relubrication facility

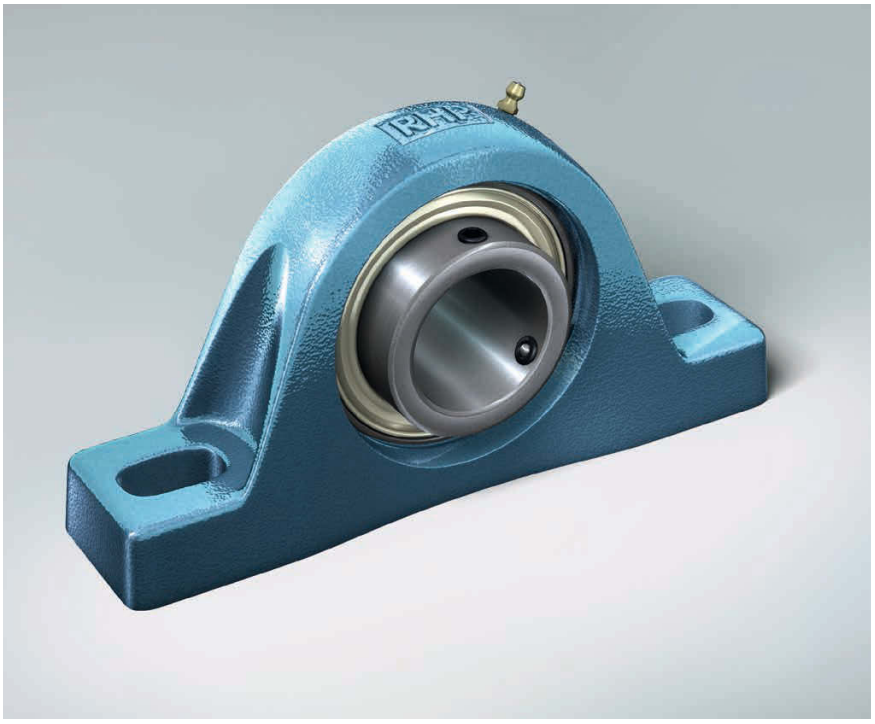
Special Housing Options

Where there are requirements for original equipment NSK can design special housings to accommodate customers' requirements subject to volumes required.

A typical example of this is shown below.



Interchange List



Interchange list

Series reference	Manufacturer	RHP and NSK replacement bearing series	
B	Asahi	1200G	RHP
B200	Asahi	AS200	RHP
B-B	Asahi	1200G	RHP
BF200	Asahi	SF-A	RHP
BFC200	Asahi	FC-A	RHP
BFL200	Asahi	SFT-A	RHP
BLCTE200	Asahi	ASFD200	NSK
BP200	Asahi	NP-A	RHP
BPF	Asahi	SLFE-A	RHP
BPF200	Asahi	ASPF200	NSK
BPFL	Asahi	SLFL-A	RHP
BPFL200	Asahi	ASPFL200	NSK
BPP	Asahi	LPB-A	RHP
BPP200	Asahi	ASPP200	NSK
BT200	Asahi	ST-A	RHP
CS200ZZ	Asahi	CS200LLU	RHP
FHFC200	Asahi	FC-EC	RHP
FHLCTE200	Asahi	AELFD200	NSK
FHPF200	Asahi	AELPF200	NSK
FHPFL200	Asahi	AELPFL200	NSK
FHR200ER(U)	Asahi	1300EC	RHP
FHT200	Asahi	ST-EC	RHP
KH200+ER	Asahi	AEL200	NSK
SER	Asahi	1100CG	RHP
UC300	Asahi	UC300	NSK
UCEH200	Asahi	UCHB200	NSK
UCF200	Asahi	UCF200	NSK
UCFC200	Asahi	UCFC200	NSK
UCFCX00	Asahi	UCFCX00	NSK
UCFK200	Asahi	UCFH200	NSK
UCFL200	Asahi	UCFL200	NSK
UCFLX00	Asahi	UCFLX00	NSK
UCFX00	Asahi	UCFX00	NSK
UCLF200(U)	Asahi	SF	RHP
UCLP200(U)	Asahi	SL	RHP
UCP200	Asahi	UCP200	NSK
UCPA200	Asahi	UCUP200	NSK
UCPX00	Asahi	UCPX00	NSK
UCST200(U)	Asahi	ST	RHP
UCT200	Asahi	UCT200	NSK
UCW200	Asahi	1000G	RHP
UD200EEA	Asahi	1200ECG	RHP
UDF200A	Asahi	SF-EC	RHP
UDFL200B	Asahi	SFT-EC	RHP
UDT200A	Asahi	NP-EC	RHP
UDT200B	Asahi	ST-EC	RHP
UG200+ER	Asahi	UEL200	NSK
UGF200	Asahi	UELF200	NSK
UGFC200	Asahi	UELFC200	NSK
UGFL200	Asahi	UELFL200	NSK
UGP200	Asahi	UELP200	NSK
UGT200	Asahi	UELT200	NSK
UH200UR(U)	Asahi	1200EC	RHP
UHF200	Asahi	SF-EC	RHP
UHFL200	Asahi	SFT-EC	RHP
UHP200	Asahi	NP-EC	RHP
UHPP200	Asahi	AELPP200	NSK
UK200	Asahi	UK200	NSK
UCP200	Asahi, FYH, Koyo, Nachi, NBR, NSK, NTN	NP	RHP
UCT200	Asahi, FYH, Koyo, Nachi, NBR, NSK, NTN	ST	RHP
UCPX	Asahi, FYH, Koyo, NSK	MP	RHP
UCTX	Asahi, FYH, Koyo, NSK	MST	RHP
UCX	Asahi, FYH, Koyo, NSK	1000G	RHP
UC200	Asahi, FYN, Koyo, Nachi, NBR, NSK, NTN	1000G	RHP
UCF200	Asahi, FYN, Koyo, Nachi, NBR, NSK, NTN	SF	RHP
UCFL200	Asahi, FYN, Koyo, Nachi, NBR, NSK, NTN	SFT	RHP
UCFX	Asahi, FYN, Koyo, NSK	MSF	RHP
UCLFX	Asahi, FYN, Koyo, NSK	MSFT	RHP
FG200ER(U)	Asahi, Nachi	1000DECG	RHP
FGAK200	Asahi, Nachi	SL-DEC	RHP
FH200ER(U)	Asahi, Nachi	1200EC	RHP
FNR-R	BCA	SF-EC	RHP
PNR-R	BCA	SL-EC	RHP
PNR-RS	BCA	NP-EC	RHP
PWG-R	BCA	SL-DEC	RHP
PWG-RS	BCA	NP-DEC	RHP
TNR-R	BCA	SFT-EC	RHP
FB220	Browning	SF-EC	RHP
FB230	Browning	SFT-EC	RHP
FB250	Browning	SF	RHP
FB260	Browning	SFT	RHP
FB350	Browning	MSF	RHP
PB220	Browning	SL-EC	RHP
PB221	Browning	NP-EC	RHP
PB250	Browning	SL	RHP
PB251	Browning	NP	RHP
PB350	Browning	MP	RHP
1000KRR	Fafnir	1100DEC	RHP
200NPPB	Fafnir	1726200-2RS	RHP
FLCTE	Fafnir	LFTC-EC	RHP
GC-KRRB	Fafnir	1000G	RHP
GC-KRRG2	Fafnir	1100CG	RHP
GE-KPPB	Fafnir	T1000DECG	RHP
GE-KRRB	Fafnir	1000DECG	RHP
G-KPPB3	Fafnir	T1000DECG	RHP
GLCTE	Fafnir	LFTC-EC	RHP
GRAE-NPPB	Fafnir	1200ECG	RHP
GW208PPB5	Fafnir	1/PDNF240/9G	RHP
GW208PPB6	Fafnir	1/PDNF240/8G	RHP
GW208PPB8	Fafnir	PDNF240/9G	RHP
GW209PPB11	Fafnir	28/DNF245-45G	RHP
GW209PPB2	Fafnir	PDNF145-45G	RHP
GW209PPB5	Fafnir	PDNF245/10G	RHP
GW209PPB8	Fafnir	DNF245/10G	RHP
GW210PP4	Fafnir	PDF150/9G	RHP
GW210PPB2	Fafnir	PDNF150-1.15/16G	RHP
GW210PPB4	Fafnir	PDNF150/9G	RHP
GW211PP2	Fafnir	PDF155-2.3/16G	RHP
GW211PP3	Fafnir	PDF155/12G	RHP
PASE	Fafnir	NP-EC	RHP
PB	Fafnir	LPB-EC	RHP
PCF	Fafnir	SF-EC	RHP
PCFT	Fafnir	SFT-EC	RHP
PHE	Fafnir	SCH-EC	RHP
PMNE	Fafnir	FC-EC	RHP
PSHE	Fafnir	SNP-EC	RHP
PTUE	Fafnir	ST-EC	RHP

Series reference	Manufacturer	RHP and NSK replacement bearing series	
RA	Fafnir	SLFE-EC	RHP
RAE..NPP	Fafnir	1300EC	RHP
RAKC	Fafnir	SL	RHP
RAKHP	Fafnir	MP	RHP
RASC	Fafnir	NP	RHP
RASE	Fafnir	NP-DEC	RHP
RAT	Fafnir	SLFL-EC	RHP
RATR	Fafnir	SLFT-EC	RHP
RC	Fafnir	SLC-DEC	RHP
RCC	Fafnir	SLC	RHP
RCE	Fafnir	SLC-DEC	RHP
RCHP	Fafnir	MSC	RHP
RCJ	Fafnir	SF-DEC	RHP
RCJHP	Fafnir	MSF	RHP
RCJSP	Fafnir	SF	RHP
RCJT	Fafnir	SFT-DEC	RHP
RCJTC	Fafnir	SFT	RHP
RCJTE	Fafnir	SFT-DEC	RHP
RCJTHP	Fafnir	MSFT	RHP
RCJTP	Fafnir	SFT	RHP
RFC	Fafnir	MFC	RHP
RFHP	Fafnir	MFC	RHP
RHCM	Fafnir	SCHB	RHP
RHE	Fafnir	SCH-DEC	RHP
RMNE	Fafnir	FC-DEC	RHP
RMNEY	Fafnir	FC	RHP
RPB	Fafnir	LPBR-EC	RHP
RR	Fafnir	SLFE-DEC	RHP
RRC	Fafnir	SLFE	RHP
RRT	Fafnir	SLFL-DEC	RHP
RRTR	Fafnir	SLFT-DEC	RHP
RSHE	Fafnir	SNP-DEC	RHP
RTUE	Fafnir	ST-DEC	RHP
RTUHP	Fafnir	MST	RHP
RTUP	Fafnir	ST	RHP
TAS	Fafnir	TNP-DEC	RHP
TASE	Fafnir	TNP-DEC	RHP
TCJ	Fafnir	TSF-DEC	RHP
TCJT	Fafnir	TSFT-DEC	RHP
THE	Fafnir	TSCH-DEC	RHP
TMNE	Fafnir	TFC-DEC	RHP
TMNE	Fafnir	TFC-DEC	RHP
TSHE	Fafnir	TSNP-DEC	RHP
TTUE	Fafnir	TST-DEC	RHP
VAK	Fafnir	SL-EC	RHP
VAK	Fafnir	SL-EC	RHP
VAS	Fafnir	NP-EC	RHP
VAS	Fafnir	NP-EC	RHP
VCJ	Fafnir	SF-EC	RHP
VCJ	Fafnir	SF-EC	RHP
VCJT	Fafnir	SFT-EC	RHP
VCJT	Fafnir	SFT-EC	RHP
VMNE	Fafnir	FC-EC	RHP
VMNE	Fafnir	FC-EC	RHP
VSHE	Fafnir	SNP-EC	RHP
VSHE	Fafnir	SNP-EC	RHP
W208PP10	Fafnir	36/DF140-1.1/2	RHP
W208PP5	Fafnir	2/DF240/9	RHP
W208PP6	Fafnir	2/DF240/8	RHP
W208PP8	Fafnir	PDF240/9	RHP
W208PP9	Fafnir	PDNF240/8	RHP
W208PPB13	Fafnir	2/DNF240/7	RHP
W208PPB2	Fafnir	36/PDNF140-1.1/2	RHP
W208PPB4	Fafnir	PDNF140-1.3/16	RHP
W208PPB5	Fafnir	2/DNF240/9	RHP
W208PPB6	Fafnir	2/DNF240/8	RHP

Series reference	Manufacturer	RHP and NSK replacement bearing series	
W208PPB7	Fafnir	2/DNF140-1.3/16	RHP
W208PPB8	Fafnir	PDNF240/9	RHP
W208PPB9	Fafnir	PDNF240/8	RHP
W209PPB2	Fafnir	PDNF145-45	RHP
W209PPB4	Fafnir	28/PDNF145-1.1/2	RHP
W209PPB5	Fafnir	PDNF245/10	RHP
W209PPB8	Fafnir	DNF245/10	RHP
W210PP2	Fafnir	PDF150-1.15/16	RHP
W210PP4	Fafnir	PDF150/9	RHP
W210PPB2	Fafnir	PDNF150-1.15/16	RHP
W210PPB4	Fafnir	PDNF150/9	RHP
W210PPB5	Fafnir	5/PDNF150-1.3/4	RHP
W210PPB6	Fafnir	PDNF250/9	RHP
W211PP2	Fafnir	PDF155-2.3/16	RHP
W211PP3	Fafnir	PDF155/12	RHP
W211PPB2	Fafnir	PDNF155-2.3/16	RHP
W211PPB3	Fafnir	PDNF155/12	RHP
200NPPB	Fafnir, INA	1726200-2RS	RHP
GE-KPPB3	Fafnir, INA	T1000DECG	RHP
G-KRRB	Fafnir, INA	1000DECG	RHP
GRA-NPPB	Fafnir, INA	1200ECG	RHP
PB	Fafnir, INA	LPB-EC	RHP
RAE-NPPB	Fafnir, INA	1200EC	RHP
RAK	Fafnir, INA	SL-DEC	RHP
RA-NPP	Fafnir, INA	1300EC	RHP
RA-NPPB	Fafnir, INA	1200EC	RHP
RSHE	Fafnir, INA	SNP-DEC	RHP
TC-J	Fafnir, INA	TSF-DEC	RHP
TCJT	Fafnir, INA	TSFT-DEC	RHP
36200	FAG	1000DECG	RHP
56200	FAG	1000G	RHP
76200	FAG	1726200-2RS	RHP
76200B.2RSR	FAG	1726200-2RS	RHP
FB16200	FAG	SLFE-EC	RHP
FB56200	FAG	SLFE	RHP
FG16200	FAG	SF-EC	RHP
FG56200	FAG	SF	RHP
H	FAG	H	RHP
KM	FAG	AN	RHP
SB16200	FAG	LPB-EC	RHP
SC16200	FAG	NP-EC	RHP
SG36200	FAG	NP-DEC	RHP
SG56200	FAG	NP	RHP
E200	FYH	1100CG	RHP
NA200	FYH	1000DECG	RHP
NANF200	FYH	SF-DEC	RHP
NANFL200	FYH	SFT-DEC	RHP
NAP200	FYH	NP-DEC	RHP
NASL200	FYH	SL-DEC	RHP
NAT-E	FYH	ST-DEC	RHP
RB200	FYH	1100	RHP
SA200	FYH	1200EC	RHP
SAA200	FYH	1300EC	RHP
SAF-FE	FYH	SF-EC	RHP
SAFL-FE	FYH	SFT-EC	RHP
SAP200	FYH	NP-EC	RHP
SAPF200	FYH	SLFE-EC	RHP
SAPP200F	FYH	LPB-A	RHP
SASL200F	FYH	SL-EC	RHP
SBPF200	FYH	SLFL-A	RHP
SBPP200F	FYH	LPB-EC	RHP
SC200	FYH	1726200-2RS	RHP
UCHA200	FYH	SCHB	RHP
UCS200N	FYH	1100CG	RHP

Interchange list

Series reference	Manufacturer	RHP and NSK replacement bearing series	
UK200	FYH, Koyo, Nachi, NBR, NSK, NTN	1000-KG	RHP
UKP200	FYH, Koyo, Nachi, NBR, NSK, NTNNP1000-k	RHP	
UCPA200	FYH, Koyo, NSK	SNP	RHP
UCF200	FYH, Koyo, NSK, NTN	FC	RHP
UKT200	FYH, Koyo, NSK, NTN	MST1000-K	RHP
UKF200	FYH, Nachi, NBR, NSK, NTN	MSF1000-K	RHP
UKFL200	FYH, Nachi, NBR, NSK, NTN	MSFT1000-K	RHP
SB200	FYH, NBR	1200G	RHP
EW	Hoffmann, Pollard	FT	RHP
RMS	Hoffmann, Pollard	MRJ	RHP
2-NPPB	INA	1726200-2RS	RHP
E..KRR	INA	1100DEC	RHP
E-KRR	INA	1100DEC	RHP
FLCTE	INA	LFTC-EC	RHP
FLCTE / GLCTE	INA	LFTC-EC	RHP
FLCTEY	INA	LFTC-A	RHP
G..KRRBW	INA	1000DEC	RHP
GAY-NPPB	INA	1200G	RHP
GE..KRRB FA101T	INA	1000DECGHLT	RHP
GE..KRRB-CC	INA	1000DECGFS	RHP
GE-KPPB3	INA	T1000DECG	RHP
GE-KRRB	INA	1000DECG	RHP
GLCTE	INA	LFTC-EC	RHP
GLCTEY	INA	LFTC-A	RHP
GRA..NPPBW	INA	1200ECG	RHP
GRAE-NPPB	INA	1200ECG	RHP
GSH-RRB	INA	1000KG	RHP
GY..KRRBW	INA	1000G	RHP
GYE..KRRB VA	INA	J1000GCR	RHP
GYE-KRRB	INA	1000G	RHP
GY-KRRB	INA	1000G	RHP
PAK	INA	SL-EC	RHP
PAKY	INA	SL-EC	RHP
PASE	INA	NP-EC	RHP
PASEY	INA	NP-A	RHP
PB	INA	LPB-EC	RHP
PBY	INA	LPB-A	RHP
PCJ	INA	SF-EC	RHP
PCJT	INA	SFT-EC	RHP
PCJTY	INA	SFT-A	RHP
PCJY	INA	SF-A	RHP
PHE	INA	SCH-EC / SCHB-EC	RHP
PHEY	INA	SCH-A / SCHB-A	RHP
PHUSE	INA	BT-EC+ BTHF	RHP
PME	INA	FC-EC	RHP
PMEY	INA	FC-A	RHP
PSHE	INA	SNP-EC	RHP
PSHEY	INA	SNP-A	RHP
PTUE	INA	ST-EC	RHP
PTUEY	INA	ST-A	RHP
RA	INA	SLFE-EC	RHP
RA..NPPW	INA	1300EC	RHP
RACEY	INA	NP	RHP
RAE..NPP	INA	1300EC	RHP
RAKY	INA	SL	RHP
RASE	INA	NP-DEC	RHP
RASE..FA101T	INA	NP-HLT	RHP
RASEA	INA	NP1000KG	RHP

Series reference	Manufacturer	RHP and NSK replacement bearing series	
RASEY	INA	NP	RHP
RASEY..TN VA	INA	PNP-CR	RHP
RAT	INA	SLFL-EC	RHP
RATR	INA	SLFT-EC	RHP
RATRY	INA	SLFT-A	RHP
RATY	INA	SLFL-A	RHP
RAY	INA	SLFE-A	RHP
RB	INA	LPB-DEC	RHP
RBY	INA	LPB	RHP
RCJ	INA	SF-DEC	RHP
RCJ..FA101T	INA	SF-HLT	RHP
RCJT	INA	SFT-DEC	RHP
RCJT..FA101T	INA	SFT-HLT	RHP
RCJTA	INA	SFT1000KG	RHP
RCJTY	INA	SFT	RHP
RCJY	INA	SF	RHP
RCJY..TN VA	INA	PSF-CR	RHP
RHE	INA	SCH-DEC / SCHB-DEC	RHP
RHEY	INA	SCH/SCHB	RHP
RME	INA	FC-DEC	RHP
RMEY	INA	FC	RHP
RR	INA	SLFE-DEC	RHP
RRT	INA	SLFL-DEC	RHP
RRTR	INA	SLFT-DEC	RHP
RRTY	INA	SLFL	RHP
RRY	INA	SLFE	RHP
RSHE	INA	SNP-DEC	RHP
RSHEY	INA	SNP	RHP
RTT	INA	TSLFL-DEC	RHP
RTTR	INA	TSLFT-DEC	RHP
RTUE	INA	ST-DEC	RHP
RTUEY	INA	ST	RHP
TASE	INA	TNP-DEC	RHP
TASE	INA	TNP-DEC	RHP
TB	INA	TLPB-DEC	RHP
TCJ	INA	TSF-DEC	RHP
TCJT	INA	TSFT-DEC	RHP
TCJTY..TN VA	INA	PSFT-CR	RHP
THE	INA	TSCH-DEC / TSCHB-DEC	RHP
TME	INA	TFC-DEC	RHP
TME	INA	TFC-DEC	RHP
TR	INA	TSLFE-DEC	RHP
TSHE	INA	TSNP-DEC	RHP
TSHE	INA	TSNP-DEC	RHP
TTUE	INA	TST-DEC	RHP
TTUE	INA	TST-DEC	RHP
YE-KRR	INA	1100	RHP
Y-KRR	INA	1100	RHP
CB200	Koyo	172620000-2RS	RHP
GA1100-2RSB	Koyo	1000DECG	RHP
GAP1100B	Koyo	NP-EC	RHP
GAPL1100B	Koyo	SL-DEC	RHP
GARA100-2RSA	Koyo	1200ECG	RHP
GARAF100A	Koyo	SF-EC	RHP
GARAFL100A	Koyo	SFT-EC	RHP
GARAP100A	Koyo	NP-EC	RHP
GARAPL100A	Koyo	SL-EC	RHP
GFF1100B	Koyo	SF-DEC	RHP
GFFL1100B	Koyo	SFT-DEC	RHP
HFC	Koyo	MFC	RHP
HV-(M)	Koyo	MST	RHP
LC	Koyo	SLC	RHP
LV-(M)	Koyo	ST	RHP
PB	Koyo	1200G	RHP
PF-A	Koyo	SLFE-EC	RHP
PF-M	Koyo	SLFE	RHP

Series reference	Manufacturer	RHP and NSK replacement bearing series	
PFT1100B	Koyo	SLFE-DEC	RHP
RA100	Koyo	1200EC	RHP
SCHB	Koyo	SCHB	RHP
SP	Koyo	LPB-A	RHP
SP100A	Koyo	LPB-EC	RHP
F3Y200N	Link Belt	SF-DEC	RHP
FX3Y200N	Link Belt	SFT-DEC	RHP
P3Y200N	Link Belt	NP-DEC	RHP
PL3Y200N	Link Belt	SL-DEC	RHP
C25	McGill	NP	RHP
C35	McGill	MP	RHP
CL25	McGill	SL	RHP
FC2-25	McGill	SFT	RHP
FC2-35	McGill	MSFT	RHP
FC4-25	McGill	SF	RHP
FC4-35	McGill	MSF	RHP
ER	McGill, Sealmaster	1100CG	RHP
BPF-B	Nachi	SLFE-A	RHP
BPP-B	Nachi	LPB-A	RHP
FHPR200	Nachi	LPBR-EC	RHP
SA200	NBR	1200ECG	RHP
SAFL200	NBR	SLFL-EC	RHP
SAP200	NBR	LPB-EC	RHP
SAY200	NBR	SLFE-EC	RHP
SBF200	NBR	SLFE-A	RHP
SBFL200	NBR	SLFL-A	RHP
SBP200	NBR	LPB-A	RHP
2FE	NDH	SFT-EC	RHP
2FS	NDH	SFT	RHP
4FE	NDH	SF-EC	RHP
4FS	NDH	SF	RHP
HPE	NDH	NP-EC	RHP
HPS	NDH	NP	RHP
PE	NDH	SL-EC	RHP
PS	NDH	SL	RHP
R2FE	NDH	SFT-EC	RHP
R2FS	NDH	SFT	RHP
R4FE	NDH	SF-EC	RHP
R4FS	NDH	SF	RHP
RHPE	NDH	NP-EC	RHP
RHPS	NDH	NP	RHP
RPE	NDH	SL-EC	RHP
RPS	NDH	SL	RHP
CS-DDU	NSK	1726200-2RS	RHP
EM200	NSK	1200EC	RHP
EMR200	NSK	1300EC	RHP
EN200	NSK	1200EC	RHP
ENFL200	NSK	SFT-EC	RHP
ENP200	NSK	NP-EC	RHP
ENPF200	NSK	SLFE-EC	RHP
ENPP200	NSK	LPB-EC	RHP
ENPPR200	NSK	LPBR-EC	RHP
ENR200	NSK	1300EC	RHP
EW200	NSK	1000DECG	RHP
EWFC200	NSK	FC-DEC	RHP
EWFH200	NSK	SF-DEC	RHP
EWFL200	NSK	SFT-DEC	RHP
EWFLH200	NSK	TSFT-DEC	RHP
EWP200	NSK	NP-DEC	RHP
EWPA200	NSK	SNP-DEC	RHP
EWPLL200	NSK	SL-DEC	RHP
EWT200	NSK	ST-DEC	RHP
GEM200	NSK	1200ECG	RHP
GEMTR200J	NSK	ST-EC	RHP
UB200	NSK	1200G	RHP
UBF200	NSK	SF-A	RHP

Series reference	Manufacturer	RHP and NSK replacement bearing series	
UBFC200	NSK	FC-A	RHP
UBFD200	NSK	LFTC-A	RHP
UBFL200	NSK	SFT-A	RHP
UBP200	NSK	NP-A	RHP
UBPD200	NSK	SNP-A	RHP
UBPF200	NSK	SLFE-A	RHP
UBPP200	NSK	LPBR-A	RHP
UCEH200	NSK	SCHB	RHP
AEL200	NTN	1200ECG	RHP
AEL200	NTN	AEL200	NSK
AELF200	NTN	SF-EC	RHP
AELFC200	NTN	FC-EC	RHP
AELFD200	NTN	AELFD200	NSK
AELFL200	NTN	SFT-EC	RHP
AELP200	NTN	NP-EC	RHP
AELPF200	NTN	SLFE-EC	RHP
AELPF200	NTN	AELPF200	NSK
AELPFL200	NTN	AELPFL200	NSK
AELPL200	NTN	SL-EC	RHP
AELPP200	NTN	LPB-EC	RHP
AELPP200	NTN	AELPP200	NSK
AELPW200	NTN	SNP-EC	RHP
AELRPP200	NTN	LPBR-EC	RHP
AELS200	NTN	1300EC	RHP
AELT200	NTN	ST-EC	RHP
AS200	NTN	1200G	RHP
AS200	NTN	AS200	NSK
ASF200	NTN	SF-A	RHP
ASFC200	NTN	FC-A	RHP
ASFD200	NTN	LFTC-A	RHP
ASFD200	NTN	ASFD200	NSK
ASFL200	NTN	SFT-A	RHP
ASFW200	NTN	LFTC-A	RHP
ASP200	NTN	NP-A	RHP
ASPF200	NTN	SLFE-A	RHP
ASPF200	NTN	ASPF200	NSK
ASPFL200	NTN	ASPFL200	NSK
ASPL200	NTN	SL	RHP
ASPP200	NTN	LPB-A	RHP
ASPP200	NTN	ASPP200	NSK
ASPW200	NTN	SNP-A	RHP
AST200	NTN	ST-A	RHP
CS200LLU	NTN	CS200LLU	RHP
CS-LLU	NTN	1726200-2RS	RHP
UC300	NTN	UC300	NSK
UCF200	NTN	UCF200	NSK
UCF300	NTN	UCF300	NSK
UCFC200	NTN	UCFC200	NSK
UCFC300	NTN	UCFC300	NSK
UCFCX00	NTN	UCFCX00	NSK
UCFH200	NTN	UCFH200	NSK
UCFL200	NTN	UCFL200	NSK
UCFL300	NTN	UCFL300	NSK
UCFLX00	NTN	UCFLX00	NSK
UCFX00	NTN	UCFX00	NSK
UCHB	NTN	SCHB	RHP
UCHB200	NTN	UCHB200	NSK
UCP200	NTN	UCP200	NSK
UCP300	NTN	UCP300	NSK
UCPX00	NTN	UCPX00	NSK
UCS200	NTN	1100	RHP
UCT200	NTN	UCT200	NSK
UCT300	NTN	UCT300	NSK
UCTX00	NTN	UCTX00	NSK
UCUP200	NTN	UCUP200	NSK
UCX00	NTN	UCX00	NSK

Interchange list

Series reference	Manufacturer	RHP and NSK replacement bearing series	
UEL200	NTN	1000DECG	RHP
UEL200	NTN	UEL200	NSK
UELF200	NTN	SF-DEC	RHP
UELF200	NTN	UELF200	NSK
UELFC200	NTN	FC-DEC	RHP
UELFC200	NTN	UELFC200	NSK
UELFL200	NTN	SFT-DEC	RHP
UELFL200	NTN	UELFL200	NSK
UELP200	NTN	NP-DEC	RHP
UELP200	NTN	UELP200	NSK
UELPL200	NTN	SL-DEC	RHP
UELPW200	NTN	SNP-DEC	RHP
UELS200	NTN	1100DEC	RHP
UELT200	NTN	ST-DEC	RHP
UELT200	NTN	UELT200	NSK
UK200	NTN	UK200	NSK
RMS-E	Pollard	MMRJ	RHP
KLNJ	R&M	KLNJ	RHP
KLNJ-D	R&M	KLNJ-Z	RHP
KLNJ-DD	R&M	KLNJ-2Z	RHP
KLNJ-WSR	R&M	KLNJ-2RS	RHP
630300	RIV	1000G	RHP
5300	Sealmaster	1000G	RHP
5200('C)	Sealmaster	1000G	RHP
5300('C)	Sealmaster	1000G	RHP
MFC	Sealmaster	MFC	RHP
MP	Sealmaster	MP	RHP
MSC	Sealmaster	MSC	RHP
MSF	Sealmaster	MSF	RHP
MSFT	Sealmaster	MSFT	RHP
MST	Sealmaster	MST	RHP
NP	Sealmaster	NP	RHP
SCHB	Sealmaster	SCHB	RHP
SFT	Sealmaster	SFT	RHP
SLG	Sealmaster	SL	RHP
SRP	Sealmaster	LPBR	RHP
SSF	Sealmaster	SLFE	RHP
SSP	Sealmaster	LPB	RHP
ST	Sealmaster	ST	RHP
TB	Sealmaster	CNP	RHP
TB-("C)	Sealmaster	CNP	RHP
SC	Sealmaster	SLC	RHP
SF	Sealmaster	SF	RHP
173200	SKF	1200ECG	RHP
173600	SKF	1200EC	RHP
174600	SKF	1300EC	RHP
477200	SKF	1000DECG	RHP
479200	SKF	1000G	RHP
1716200D-2LS	SKF	1300EC	RHP
1726200-2RS	SKF	1726200-2RS	RHP
1726200-2RS1	SKF	1726200-2RS	RHP
1726300-2RS1	SKF	1726300-2RS	RHP
238200(D)-2LS	SKF	1200EC	RHP
413200(D)	SKF	1000G	RHP
FY-CB	SKF	SF-EC	RHP
FYC-RM	SKF	FC-A	RHP
FYC-TF	SKF	FC	RHP
FYC-WM	SKF	FC-DEC	RHP
FY-FM	SKF	SF-EC	RHP
FYGF-FJ	SKF	FC-EC	RHP
FYGF-SD	SKF	FC	RHP
FYGF-W	SKF	FC-DEC	RHP
FYJ-FM	SKF	SF-EC	RHP
FYJ-RM	SKF	SF-A	RHP
FYJ-TF	SKF	UCF200	RHP
FYJ-WF	SKF	UELF200	RHP

Series reference	Manufacturer	RHP and NSK replacement bearing series	
FYK..TH/GFA	SKF	PSF-CR	RHP
FY-RM	SKF	SF-A	RHP
FY-S	SKF	SF	RHP
FYTB-CB	SKF	SFT-EC	RHP
FYTB-FJ	SKF	SFT-EC	RHP
FYTB-FM	SKF	SFT-EC	RHP
FYTBJ-FM	SKF	SFT-EC	RHP
FYTBJ-RM	SKF	SFT-A	RHP
FYTBJ-TF	SKF	UCFL200	RHP
FYTBJ-WF	SKF	UELFL200	RHP
FYTBK..TH/GFA	SKF	PSFT-CR	RHP
FYTB-L(D)	SKF	SFT	RHP
FYTB-RM	SKF	SFT-A	RHP
FYTB-S(D)	SKF	SFT	RHP
FYTB-TF	SKF	SFT	RHP
FYTB-TM	SKF	SFT	RHP
FYTB-W(M)	SKF	SFT-DEC	RHP
FYTB-WF	SKF	SFT-DEC	RHP
FY-TF	SKF	SF	RHP
FYTF-FJ	SKF	LFTC-EC	RHP
FY-TM	SKF	SF	RHP
FY-WM	SKF	SF-DEC	RHP
FY-X	SKF	SF-DEC	RHP
H	SKF	H	RHP
HA	SKF	HA	RHP
HE	SKF	HE	RHP
KM	SKF	AN	RHP
MB	SKF	AW	RHP
P-CA	SKF	LPB-EC	RHP
PF-CA	SKF	SLFE-EC	RHP
PFD-FM	SKF	SLFT-DEC	RHP
PFD-FM	SKF	SLFT-EC	RHP
PFD-RM	SKF	SLFT-A	RHP
PFD-TF	SKF	SLFT	RHP
PFD-TM	SKF	SLFT	RHP
PFD-WF	SKF	SLFT-DEC	RHP
PFD-WM	SKF	SLFT-DEC	RHP
PF-FM	SKF	SLFE-EC	RHP
P-FJ	SKF	LPB-EC	RHP
PF-L(D)	SKF	SLFE	RHP
P-FM	SKF	LPB-EC	RHP
PF-PA	SKF	SLFE-EC	RHP
PF-RM	SKF	SLFE-A	RHP
PFT-CA	SKF	SLFE-EC	RHP
PF-TF	SKF	SLFE	RHP
PFT-FM	SKF	SLFL-EC	RHP
PF-TM	SKF	SLFE	RHP
PFT-RM	SKF	SLFL-A	RHP
PFT-TF	SKF	SLFL	RHP
PFT-TM	SKF	SLFL	RHP
PFT-W	SKF	SLFL-DEC	RHP
PFT-WF	SKF	SLFL-DEC	RHP
PFT-WM	SKF	SLFL-DEC	RHP
PF-WF	SKF	SLFE-DEC	RHP
PF-WM	SKF	SLFE-DEC	RHP
P-L(D)	SKF	LPB	RHP
P-R-CA	SKF	LPBR-A	RHP
P-R-FA	SKF	LPBR-A	RHP
P-R-FJ	SKF	LPBR-A	RHP
P-R-L	SKF	LPBR	RHP
P-RM	SKF	LPB-A or ASPP200	RHP
P-TF	SKF	LPB	RHP
P-TM	SKF	LPB	RHP
P-W	SKF	LPB-DEC	RHP
P-WF	SKF	LPB-DEC	RHP
P-WM	SKF	LPB-DEC	RHP

Series reference	Manufacturer	RHP and NSK replacement bearing series	
SY	SKF	NP	RHP
SYB-FM	SKF	SL-EC	RHP
SYB-L(D)	SKF	SL	RHP
SYB-TM	SKF	SL	RHP
SYBWM	SKF	SL-DEC	RHP
SY-CB	SKF	NP-EC	RHP
SYF-FM	SKF	SNP-EC	RHP
SYFJ-FM	SKF	SNP-EC	RHP
SYFJ-RM	SKF	SNP-A	RHP
SYFJ-TF	SKF	UCUP200	NSK
SYFJ-WF	SKF	SNP-DEC	RHP
SY-FM	SKF	NP-EC	RHP
SY-FM	SKF	NP-EC	RHP
SYF-RM	SKF	SNP-A	RHP
SYF-TF	SKF	SNP	RHP
SYF-WF	SKF	SNP-DEC	RHP
SYH-CB	SKF	SL-EC	RHP
SYH-X	SKF	SL-DEC	RHP
SYJ-FM	SKF	NP-EC	RHP
SYJ-RM	SKF	NP-A	RHP
SYJ-TF	SKF	UCP200	NSK
SYJ-WF	SKF	UELP200	NSK
SYK..TH/GFA	SKF	PNP-CR	RHP
SY-RM	SKF	NP-A	RHP
SY-TF	SKF	NP	RHP
SY-TM	SKF	NP	RHP
SY-W	SKF	NP-DEC	RHP
SY-WF	SKF	NP-DEC	RHP
SY-WM	SKF	NP-DEC	RHP
TB	SKF	ST	RHP
TB-CB	SKF	ST-EC	RHP
TB-X	SKF	ST-DEC	RHP
TU-FJ	SKF	ST-EC	RHP
TU-FM	SKF	ST-EC	RHP
TU-FM	SKF	ST-EC	RHP
TUJ-FM	SKF	ST-EC	RHP
TUJ-RM	SKF	ST-A	RHP
TUJ-TF	SKF	UCT200	NSK
TUJ-WF	SKF	UELT200	NSK
TU-L(D)	SKF	ST	RHP
TU-RM	SKF	ST-A	RHP
TU-S(D)	SKF	ST	RHP
TU-TF	SKF	ST	RHP
TU-TM	SKF	ST	RHP
TU-WF	SKF	ST-DEC	RHP
TU-WM	SKF	ST-DEC	RHP
YAR2..-2RF/ HVGFA	SKF	J1000GCR	RHP
YAR200	SKF	1000G	RHP
YAR-2-2RF	SKF	1000GFS	RHP
YAR-2F	SKF	1000G	RHP
YAT200	SKF	1200G	RHP
YEL200	SKF	1000DECG	RHP
YEL200-2F	SKF	1000DECG	RHP
YET200	SKF	1200ECG	RHP
YSA200-2FK	SKF	1000KG	RHP
CES200	SNR	1300EC	RHP
CEX200	SNR	1100DEC	RHP
CUC200	SNR	1100	RHP
CUCS200	SNR	1300	RHP
ES200	SNR	1200ECG	RHP
ESC200	SNR	SLC-EC	RHP
ESEHE200	SNR	SCH-EC	RHP
ESF200	SNR	SF-EC	RHP
ESFC200	SNR	FC-EC	RHP
ESFD	SNR	LFTC-EC	RHP
ESFL200	SNR	SFT-EC	RHP

Series reference	Manufacturer	RHP and NSK replacement bearing series	
ESP200	SNR	NP-EC	RHP
ESPA200	SNR	SNP-EC	RHP
ESSP200	SNR	BT-EC	RHP
EST200	SNR	ST-EC	RHP
EX200	SNR	1000DECG	RHP
EX200L3	SNR	T1000DECG8	RHP
EXC200	SNR	SLC-DEC	RHP
EXEHE200	SNR	SCH-DEC	RHP
EXF200	SNR	SF-DEC	RHP
EXFC200	SNR	FC-DEC	RHP
EXP200	SNR	NP-DEC	RHP
EXPA200	SNR	SNP-DEC	RHP
EXSP200	SNR	BT-DEC	RHP
EXT200	SNR	ST-DEC	RHP
GNP	SNR	PNP-CR	RHP
GSF	SNR	PSF-CR	RHP
GSFT	SNR	PSFT-CR	RHP
MUC..FD	SNR	J1000GCR	RHP
SPR	SNR	BTHF	RHP
UC200	SNR	1000G	RHP
UC200L3	SNR	T1000G	RHP
UCC200	SNR	SLC	RHP
UCEHE200	SNR	SCH	RHP
UCF200	SNR	SF	RHP
UCFC200	SNR	FC	RHP
UCFL200	SNR	SFT	RHP
UCP200	SNR	NP	RHP
UCPA200	SNR	SNP	RHP
UCSP200	SNR	BT	RHP
UCT200	SNR	ST	RHP
UK200	SNR	1000KG	RHP
UKC200	SNR	SLC1000K	RHP
UKEHE200	SNR	SCH1000K	RHP
UKF200	SNR	SF1000K	RHP
UKFL200	SNR	SFT1000K	RHP
UKP200	SNR	NP1000K	RHP
UKPA200	SNR	SNP1000K	RHP
UKT200	SNR	ST1000K	RHP
US200	SNR	1200G	RHP
USC200	SNR	SLC-A	RHP
USEHE200	SNR	SCH-A	RHP
USF200	SNR	SF-A	RHP
USFC200	SNR	FC-A	RHP
USFD	SNR	LFTC-A	RHP
USFL200	SNR	SFT-A	RHP
USP200	SNR	NP-A	RHP
USPA200	SNR	SNP-A	RHP
USSP200	SNR	BT-A	RHP
UST200	SNR	ST-A	RHP
6200EES	Steyr	176200-2RS	RHP

Conversion Tables

Conversion Tables

Comparison of SI, CGS and engineering units

Units Unit system	Length	Mass	Time	Temp.	Acceleration	Force	Stress	Pressure	Energy	Power
SI	**m**	**kg**	**s**	**K, °C**	**m/s^2**	**N**	**Pa**	**Pa**	**J**	**W**
CGS System	**cm**	g	s	°C	Gal	dyn	dyn/cm^2	dyn/cm^2	erg	erg/s
Engineering unit system	**m**	$kgf \cdot s^2/m$	s	°C	m/s^2	kgf	kgf/m^2	kgf/m^2	kgf · m	kgf · m/s

Conversion factors from SI units

Parameter	SI Unit Names of unit	Symbol	Unit other than SI Name of unit	Symbol	Conversion factor from SI unit
Angle	**Radian**	**rad**	Degree	°	180/π
			Minute	′	10 800/π
			Second	″	648 000/π
Length	**Metre**	**m**	Micron	μ	10^6
			Angstrom	Å	10^{10}
Area	**Square metre**	**m^2**	Are	a	10^{-2}
			Hectare	ha	10^{-4}
Volume	**Cubic metre**	**m^3**	Litre	l, L	10^3
			Decilitre	dl, dL	10^4
Time	**Second**	**s**	Minute	min	1/60
			Hour	h	1/3 600
			Day	d	1/86 400
Frequency	**Hertz**	**Hz**	Cycle	s^{-1}	1
Speed of Rotation	**Revolution per second**	**s^{-1}**	Revolution per minute	rpm	60
Speed	**Metre per second**	**m/s**	Kilometre per hour	km/h	3 600/1 000
			Knot	kn	3 600/1 852
Acceleration	**Metre per second per second**	**m/s^2**	Gravitational acceleration	G	1/9.806 65
Mass	**Kilogram**	**kg**	Tonne	te	10^{-3}
			Ton	t	9.842×10^{-4}
Force	**Newton**	**N**	Kilogram-force	kgf	1/9.806 65
			Ton-force	tf	1/ (9.806 65 · 103)
			Dyne	dyn	10^5
Torque or Moment	**Newton · metre**	**N · m**	Kilogram-force metre	kgf · m	1/9.806 65
Stress	**Pascal**	**Pa (N/m^2)**	Kilogram-force per square centimetre	kgf/cm^2	1/ (9.806 65 · 10^4)
			Kilogram-force per square millimetre	kgf/mm^2	1/ (9.806 65 · 10^6)
Pressure	**Pascal (Newton per square metre)**	**Pa (N/m^2)**	Kilogram-force per square metre	kgf/m^2	1/9.806 65
			Water Column	mH_2O	1/(9.806 65 · 10^3)
			Mercury Column	mmHg	760/(1.013 25 · 10^5)
			Torr	Torr	760/(1.013 25 · 10^5)
			Bar	bar	10^{-5}
			Atmosphere	atm	1/(1.013 25 · 10^5)

Conversion factors from SI units (continued)

Parameter	SI Unit Names of unit	SI Unit Symbol	Unit other than SI Name of unit	Unit other than SI Symbol	Conversion factor from SI unit
Energy	**Joule (Newton · metre)**	**J (N · m)**	Erg	erg	107
			Calorie (International)	cal_{IT}	4.186 8
			Kilogram-force metre	kgf · m	1/9.806 65
			Kilowatt hour	kW · h	$1/(3.6 \cdot 10^6)$
			Metric horse power hour	PS · h	$\approx 3.776\ 72 \cdot 10^{-7}$
Power	**Watt (Joule per second)**	**W (J/s)**	Kilogram-force metre per second	kgf · m/s	1/9.806 65
			Kilocalorie per hour	kcal/h	1/1.163
			Metric horse power	PS	≈ 1/735.498 8
Dynamic Viscosity	**Pascal second**	**Pa · s**	Poise	P	10
Kinematic Viscosity	**Square metre per second**	**m^2/s**	Stokes	St	10^4
			Centistokes	cSt	10^6
Temperature	**Kelvin, Degree celsius**	**K, °C**	Degree	°C	(See note (1))
Electric Current Magnetomotive Force	**Ampere**	**A**	Ampere	A	1
Voltage, Electromotive Force	**Volt**	**V**	(Watts per ampere)	(W/A)	1
Magnetic Field Strength	**Ampere per metre**	**A/m**	Oersted	Oe	$4\pi/10^3$
Magnetic Flux Density	**Tesla**	**T**	Gauss	Gs	10^4
			Gamma	γ	10^9
Electrical Resistance	**Ohm**	**Ω**	(Volts per ampere)	(V/A)	1

Note (1) The conversion from T(K) into θ(°C) is θ = T - 273.15 but for a temperature difference, it is ΔT = Δθ. However, ΔT and Δθ represent temperature differences measured using the Kelvin and Celsius scales respectively.

Remarks The names and symbols in ( ) are equivalent to those directly above them or on their left.

Example of conversion 1N=1/9.806 65kgf

Prefixes used in SI system

Multiples	Prefix	Symbols	Multiples	Prefix	Symbols
10^{18}	**Exa**	E	10^{-1}	Deci	d
10^{15}	**Peta**	P	10^{-2}	Centi	c
10^{12}	**Tera**	T	10^{-3}	Milli	m
10^9	**Giga**	G	10^{-6}	Micro	μ
10^6	**Mega**	M	10^{-9}	Nano	n
10^3	**Kilo**	k	10^{-12}	Pico	p
10^2	**Hecto**	h	10^{-15}	Femto	f
10^1	**Deca**	da	10^{-18}	Ato	a

Inch - Metric conversion tables

Inch		0	1	2	3	4	5	6	7	8	9	10
Fraction	Decimal	mm										
0	0.000000	0.000	25.400	50.800	76.200	101.600	127.000	152.400	177.800	203.200	228.600	254.000
1/64	0.015625	0.397	25.797	51.197	76.597	101.997	127.397	152.797	178.197	203.597	228.997	254.397
1/32	0.031250	0.794	26.194	51.594	76.994	102.394	127.794	153.194	178.594	203.994	229.394	254.794
3/64	0.046875	1.191	26.591	51.991	77.391	102.791	128.191	153.591	178.991	204.391	229.791	255.191
1/16	0.062500	1.588	26.988	52.388	77.788	103.188	128.588	153.988	179.388	204.788	230.188	255.588
5/64	0.078125	1.984	27.384	52.784	78.184	103.584	128.984	154.384	179.784	205.184	230.584	255.984
3/32	0.093750	2.381	27.781	53.181	78.581	103.981	129.381	154.781	180.181	205.581	230.981	256.381
7/64	0.109375	2.778	28.178	53.578	78.978	104.378	129.778	155.178	180.578	205.978	231.378	256.778
1/8	0.125000	3.175	28.575	53.975	79.375	104.775	130.175	155.575	180.975	206.375	231.775	257.175
9/64	0.140625	3.572	28.972	54.372	79.772	105.172	130.572	155.972	181.372	206.772	232.172	257.572
5/32	0.156250	3.969	29.369	54.769	80.169	105.569	130.969	156.369	181.769	207.169	232.569	257.969
11/64	0.171875	4.366	29.766	55.166	80.566	105.966	131.366	156.766	182.166	207.566	232.966	258.366
3/16	0.187500	4.762	30.162	55.562	80.962	106.362	131.762	157.162	182.562	207.962	233.362	258.762
13/64	0.203125	5.159	30.559	55.959	81.359	106.759	132.159	157.559	182.959	208.359	233.759	259.159
7/32	0.218750	5.556	30.956	56.356	81.756	107.156	132.556	157.956	183.356	208.756	234.156	259.556
15/64	0.234375	5.953	31.353	56.753	82.153	107.553	132.953	158.353	183.753	209.153	234.553	259.953
1/4	0.250000	6.350	31.750	57.150	82.550	107.950	133.350	158.750	184.150	209.550	234.950	260.350
17/64	0.265625	6.747	32.147	57.547	82.947	108.347	133.747	159.147	184.547	209.947	235.347	260.747
9/32	0.281250	7.144	32.544	57.944	83.344	108.744	134.144	159.544	184.944	210.344	235.744	261.144
19/64	0.296875	7.541	32.941	58.341	83.741	109.141	134.541	159.941	185.341	210.741	236.141	261.541
5/16	0.312500	7.938	33.338	58.738	84.138	109.538	134.938	160.338	185.738	211.138	236.538	261.938
21/64	0.328125	8.334	33.734	59.134	84.534	109.934	135.334	160.734	186.134	211.534	236.934	262.334
11/32	0.343750	8.731	34.131	59.531	84.931	110.331	135.731	161.131	186.531	211.931	237.331	262.731
23/64	0.359375	9.128	34.528	59.928	85.328	110.728	136.128	161.528	186.928	212.328	237.728	263.128
3/8	0.375000	9.525	34.925	60.325	87.725	111.125	136.525	161.925	187.325	212.725	238.125	263.525
25/64	0.390625	9.922	35.322	60.722	86.122	111.522	136.922	162.322	187.722	213.122	238.522	263.922
13/32	0.406250	10.319	35.719	61.119	86.519	111.919	137.319	162.719	188.119	213.519	238.919	264.319
27/64	0.421875	10.716	36.116	61.516	86.916	112.316	137.716	163.116	188.516	213.916	239.316	264.716
7/16	0.437500	11.112	36.512	61.912	87.312	112.712	138.112	163.512	188.912	214.312	239.712	265.112
29/64	0.453125	11.509	36.909	62.309	87.709	113.109	138.509	163.909	189.309	214.709	240.109	265.509
15/32	0.468750	11.906	37.306	62.706	88.106	113.506	138.906	164.306	189.706	215.106	240.506	265.906
31/64	0.484375	12.303	37.703	63.103	88.503	113.903	139.303	164.703	190.103	215.503	240.903	266.303
1/2	0.500000	12.700	38.100	63.500	88.900	114.300	139.700	165.100	190.500	215.900	241.300	266.700
33/64	0.515625	13.097	38.497	63.897	89.297	114.697	140.097	165.497	190.897	216.297	241.697	267.097
17/32	0.531250	13.494	38.894	64.294	89.694	115.094	140.494	165.894	191.294	216.694	242.094	267.494
35/64	0.546875	13.891	39.291	64.691	90.091	115.491	140.891	166.291	191.691	217.091	242.491	267.891
9/16	0.562500	14.288	39.688	65.088	90.488	115.888	141.288	166.688	192.088	217.488	242.888	268.288
37/64	0.578125	14.684	40.084	65.484	90.884	116.284	141.684	167.084	192.484	217.884	243.284	268.684
19/32	0.593750	15.081	40.481	65.881	91.281	116.681	142.081	167.481	192.881	218.281	243.681	269.081
39/64	0.609375	15.478	40.878	66.278	91.678	117.078	142.478	167.878	193.278	218.678	244.078	269.478
5/8	0.625000	15.875	41.275	66.675	92.075	117.475	142.875	168.275	193.675	219.075	244.475	269.875
41/64	0.640625	16.272	41.672	67.072	92.472	117.872	143.272	168.672	194.072	219.472	244.872	270.272
21/32	0.656250	16.669	42.069	67.469	92.869	118.269	143.669	169.069	194.469	219.869	245.269	270.669
43/64	0.671875	17.066	42.466	67.866	93.266	118.666	144.066	169.466	194.866	220.266	245.666	271.066
11/16	0.687500	17.462	42.862	68.262	93.662	119.062	144.462	169.862	195.262	220.662	246.062	271.462
45/64	0.703125	17.859	43.259	68.659	94.059	119.459	144.859	170.259	195.659	221.059	246.459	271.859
23/32	0.718750	18.256	43.656	69.056	94.456	119.856	145.256	170.656	196.056	221.456	246.856	272.256
47/64	0.734375	18.653	44.053	69.453	94.853	120.253	145.653	171.053	196.453	221.853	247.253	272.653
3/4	0.750000	19.050	44.450	69.850	95.250	120.650	146.050	171.450	196.850	222.250	247.650	273.050
49/64	0.765625	19.447	44.847	70.247	95.647	121.047	146.447	171.847	197.247	222.647	248.047	273.447
25/32	0.781250	19.844	45.244	70.644	96.044	121.444	146.844	172.244	197.644	223.044	248.444	273.844
51/64	0.796875	20.241	45.641	71.041	96.441	121.841	147.241	172.641	198.041	223.441	248.841	274.241
13/16	0.812500	20.638	46.038	71.438	96.838	122.238	147.638	173.038	198.438	223.838	249.238	274.638
53/64	0.828125	21.034	46.434	71.834	97.234	122.634	148.034	173.434	198.834	224.234	249.634	275.034
27/32	0.843750	21.431	46.831	72.231	97.631	123.031	148.431	173.831	199.231	224.631	250.031	275.431
55/64	0.859375	21.828	47.228	72.628	98.028	123.428	148.828	174.228	199.628	225.028	250.428	275.828
7/8	0.875000	22.225	47.625	73.025	98.425	123.825	149.225	174.625	200.025	225.425	250.825	276.225
57/64	0.890625	22.622	48.022	73.422	98.822	124.222	149.622	175.022	200.422	225.822	251.222	276.622
29/32	0.906250	23.019	48.419	73.819	99.219	124.619	150.019	175.419	200.819	226.219	251.619	277.019
59/64	0.921875	23.416	48.816	74.216	99.616	125.016	150.416	175.816	201.216	226.616	252.016	277.416
15/16	0.937500	23.812	49.212	74.612	100.012	125.412	150.812	176.212	201.612	227.012	252.412	277.812
61/64	0.953125	24.209	49.609	75.009	100.409	125.809	151.209	176.609	202.009	227.409	252.809	278.209
31/32	0.968750	24.606	50.006	75.406	100.806	126.206	151.606	177.006	202.406	227.806	253.206	278.606
63/64	0.984375	25.003	50.403	75.803	101.203	126.603	152.003	177.403	202.803	228.203	253.603	279.003

Inch		11	12	13	14	15	16	17	18	19	20
Fraction	Decimal	mm									
0	0.0000	279.400	304.800	330.200	355.600	381.000	406.400	431.800	457.200	482.600	508.000
1/16	0.0625	280.988	306.388	331.788	357.188	382.588	407.988	433.388	458.788	484.188	509.588
1/8	0.1250	282.575	307.975	333.375	358.775	384.175	409.575	434.975	460.375	485.775	511.175
3/16	0.1875	284.162	309.562	334.962	360.362	385.762	411.162	436.562	461.962	487.362	512.762
1/4	0.2500	285.750	311.150	336.550	361.950	387.350	412.750	438.150	463.550	488.950	514.350
5/16	0.3125	287.338	312.738	338.138	363.538	388.938	414.338	439.738	465.138	490.538	515.938
3/8	0.3750	288.925	314.325	339.725	365.125	390.525	415.925	441.325	466.725	492.125	517.525
7/16	0.4375	290.512	315.912	341.312	366.712	392.112	417.512	442.912	468.312	493.712	519.112
1/2	0.5000	292.100	317.500	342.900	368.300	393.700	419.100	444.500	469.900	495.300	520.700
9/16	0.5625	293.688	319.088	344.488	369.888	395.288	420.688	446.088	471.488	496.888	522.288
5/8	0.6250	295.275	320.675	346.075	371.475	396.875	422.275	447.675	473.075	498.475	523.875
11/16	0.6875	296.862	322.262	347.662	373.062	398.462	423.862	449.262	474.662	500.062	525.462
3/4	0.7500	298.450	323.850	349.250	374.650	400.050	425.450	450.850	476.250	501.650	527.050
13/16	0.8125	300.038	325.438	350.838	376.238	401.638	427.038	452.438	477.838	503.238	528.638
7/8	0.8750	301.625	327.025	352.425	377.825	403.225	428.625	454.025	479.425	504.825	530.225
15/16	0.9375	303.212	328.612	354.012	379.412	404.812	430.212	455.612	481.012	506.412	531.812

Inch		21	22	23	24	25	26	27	28	29	30
Fraction	Decimal	mm									
0	0.0000	533.400	558.800	584.200	609.600	635.000	660.400	685.800	711.200	736.600	762.000
1/16	0.0625	534.988	560.388	585.788	611.188	636.588	661.988	687.388	712.788	738.188	763.588
1/8	0.1250	536.575	561.975	587.375	612.775	638.175	663.575	688.975	714.375	739.775	765.175
3/16	0.1875	538.162	563.562	588.962	614.362	639.762	665.162	690.562	715.962	741.362	766.762
1/4	0.2500	539.750	565.150	590.550	615.950	641.350	666.750	692.150	717.550	742.950	768.350
5/16	0.3125	541.338	566.738	592.138	617.538	642.938	668.338	693.738	719.138	744.538	769.938
3/8	0.3750	542.925	568.325	593.725	619.125	644.525	669.925	695.325	720.725	746.125	771.525
7/16	0.4375	544.512	569.912	595.312	620.712	646.112	671.512	696.912	722.312	747.712	773.112
1/2	0.5000	546.100	571.500	596.900	622.300	647.700	673.100	698.500	723.900	749.300	774.700
9/16	0.5625	547.688	573.088	598.488	623.888	649.288	674.688	700.088	725.488	750.888	776.288
5/8	0.6250	549.275	574.675	600.075	625.475	650.875	676.275	701.675	727.075	752.475	777.875
11/16	0.6875	550.862	576.262	601.662	627.062	652.462	677.862	703.262	728.662	754.062	779.462
3/4	0.7500	552.450	577.850	603.250	628.650	654.050	679.450	704.850	730.250	755.650	781.050
13/16	0.8125	554.038	579.438	604.838	630.238	655.638	681.038	706.438	731.838	757.238	782.638
7/8	0.8750	555.625	581.025	606.425	631.825	657.225	682.625	708.025	733.425	758.825	784.225
15/16	0.9375	557.212	582.612	608.012	633.412	658.812	684.212	709.612	735.012	760.412	785.812

Inch		31	32	33	34	35	36	37	38	39	40
Fraction	Decimal	mm									
0	0.0000	787.400	812.800	838.200	863.600	889.000	914.400	939.800	965.200	990.600	1016.000
1/16	0.0625	788.988	814.388	839.788	865.188	890.588	915.988	941.388	966.788	992.188	1017.588
1/8	0.1250	790.575	815.975	841.375	866.775	892.175	917.575	942.975	968.375	993.775	1019.175
3/16	0.1875	792.162	817.562	842.962	868.362	893.762	919.162	944.562	969.962	995.362	1020.762
1/4	0.2500	793.750	819.150	844.550	869.950	895.350	920.750	946.150	971.550	996.950	1022.350
5/16	0.3125	795.338	820.738	846.138	871.538	896.938	922.338	947.738	973.138	998.538	1023.938
3/8	0.3750	796.925	822.325	847.725	873.125	898.525	923.925	949.325	974.725	1000.125	1025.525
7/16	0.4375	798.512	823.912	849.312	874.712	900.112	925.512	950.912	976.312	1001.712	1027.112
1/2	0.5000	800.100	825.500	850.900	876.300	901.700	927.100	952.500	977.900	1003.300	1028.700
9/16	0.5625	801.688	827.088	852.488	877.888	903.288	928.688	954.088	979.488	1004.888	1030.288
5/8	0.6250	803.275	828.675	854.075	879.475	904.875	930.275	955.675	981.075	1006.475	1031.875
11/16	0.6875	804.862	830.262	855.662	881.062	906.462	931.862	957.262	982.662	1008.062	1033.462
3/4	0.7500	806.450	831.850	857.250	882.650	908.050	933.450	958.850	984.250	1009.650	1035.050
13/16	0.8125	808.038	833.438	858.838	884.238	909.638	935.038	960.438	985.838	1011.238	1036.638
7/8	0.8750	809.625	835.025	860.425	885.825	911.225	936.625	962.025	987.425	1012.825	1038.225
15/16	0.9375	811.212	836.612	862.012	887.412	912.812	938.212	963.621	989.012	1014.412	1039.812

Temperature conversion tables

Appendix table 4 °C-°F conversion table

(Method of using this table) For example, to convert 38°C into °F, read the figure in the right °F column adjacent to the 38 in the center column in the 2nd block. This means that 38°C is 100.4°F. To convert 38°F into°C, read the figure in the left °C column of the same row, which indicates that the answer is 3.3°C.

$$C = \frac{5}{9}(F-32)$$

$$F = 32+\frac{5}{9}C$$

°C		°F	°C		°F	°C		°F	°C		°F
−73.3	−100	−148.0	0.0	32	89.6	21.7	71	159.8	43.3	110	230
−62.2	−80	−112.0	0.6	33	91.4	22.2	72	161.6	46.1	115	239
−51.1	−60	−76.0	1.1	34	93.2	22.8	73	163.4	48.9	120	248
−40.0	−40	−40.0	1.7	35	95.0	23.3	74	165.2	51.7	125	257
−34.4	−30	−22.0	2.2	36	96.8	23.9	75	167.0	54.4	130	266
−28.9	−20	−4.0	2.8	37	98.6	24.4	76	168.8	57.2	135	275
−23.3	−10	14.0	3.3	38	100.4	25.0	77	170.6	60.0	140	284
−17.8	0	32.0	3.9	39	102.2	25.6	78	172.4	65.6	150	302
−17.2	1	33.8	4.4	40	104.0	26.1	79	174.2	71.1	160	320
−16.7	2	35.6	5.0	41	105.8	26.7	80	176.0	76.7	170	338
−16.1	3	37.4	5.6	42	107.6	27.2	81	177.8	82.2	180	356
−15.6	4	39.2	6.1	43	109.4	27.8	82	179.6	87.8	190	374
−15.0	5	41.0	6.7	44	111.2	28.3	83	181.4	93.3	200	392
−14.4	6	42.8	7.2	45	113.0	28.9	84	183.2	98.9	210	410
−13.9	7	44.6	7.8	46	114.8	29.4	85	185.0	104.4	220	428
−13.3	8	46.4	8.3	47	116.6	30.0	86	186.8	110.0	230	446
−12.8	9	48.2	8.9	48	118.4	30.6	87	188.6	115.6	240	464
−12.2	10	50.0	9.4	49	120.2	31.1	88	190.4	121.1	250	482
−11.7	11	51.8	10.0	50	122.0	31.7	89	192.2	148.9	300	572
−11.1	12	53.6	10.6	51	123.8	32.2	90	194.0	176.7	350	662
−10.6	13	55.4	11.1	52	125.6	32.8	91	195.8	204	400	752
−10.0	14	57.2	11.7	53	127.4	33.3	92	197.6	232	450	842
−9.4	15	59.0	12.2	54	129.2	33.9	93	199.4	260	500	932
−8.9	16	60.8	12.8	55	131.0	34.4	94	201.2	288	550	1022
−8.3	17	62.6	13.3	56	132.8	35.0	95	203.0	316	600	1112
−7.8	18	64.4	13.9	57	134.6	35.6	96	204.8	343	650	1202
−7.2	19	66.2	14.4	58	136.4	36.1	97	206.6	371	700	1292
−6.7	20	68.0	15.0	59	138.2	36.7	98	208.4	399	750	1382
−6.1	21	69.8	15.6	60	140.0	37.2	99	210.2	427	800	1472
−5.6	22	71.6	16.1	61	141.8	37.8	100	212.0	454	850	1562
−5.0	23	73.4	16.7	62	143.6	38.3	101	213.8	482	900	1652
−4.4	24	75.2	17.2	63	145.4	38.9	102	215.6	510	950	1742
−3.9	25	77.0	17.8	64	147.2	39.4	103	217.4	538	1000	1832
−3.3	26	78.8	18.3	65	149.0	40.0	104	219.2	593	1100	2012
−2.8	27	80.6	18.9	66	150.8	40.6	105	221.0	649	1200	2192
−2.2	28	82.4	19.4	67	152.6	41.1	106	222.8	704	1300	2372
−1.7	29	84.2	20.0	68	154.4	41.7	107	224.6	760	1400	2552
−1.1	30	86.0	20.6	69	156.2	42.2	108	226.4	816	1500	2732
−0.6	31	87.8	21.1	70	158.0	42.8	109	228.2	871	1600	2912

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