

NSK-RHP is part of the international NSK group who are one of the world's leading manufacturers of rolling bearings, automotive components and mechatronic products.

The group has more than 30 manufacturing units around the world, employing over 21,000 people and is represented by sales offices and Authorised Distributors almost everywhere.

Our manufacturing programme includes bearings from 1mm bore to 5 metres, covering virtually all conceivable application areas. Self-Lube is an integral part of our comprehensive product range.

Every care has been taken to ensure that the information in this publication is accurate but no liability can be accepted for any errors or omissions.

© Copyright NSK-RHP 1997
The contents of this publication are the copyright of the publishers

Introduction

Self-Lube is the registered trademark for the RHP range of wide inner ring bearings and mounted bearing units.

Self-Lube units provide simple and effective bearing arrangements capable of accommodating moderate initial misalignment from mounting errors. They are easily mounted onto commercial shafting and are particularly useful where fabricated machine frames are employed.

The units are available in a variety of pillow block and flange mounted configurations with one piece cast iron or two piece pressed steel housings.

Self-Lube inserts are wide inner ring ball bearings that are effectively and efficiently sealed. Simple fitting onto standard shafting is provided for by means of eccentric locking collar, set screws or adapter sleeve.

The reliability, simplicity and ease of assembly of items in the Self-Lube range has resulted in their popularity for agricultural, extraction and construction machinery as well as process and automation equipment.

Product Selection

The purpose of this catalogue is to introduce the RHP Self-Lube range and provide the necessary technical information for assisting in selecting the most appropriate Self-Lube product for most applications. NSK-RHP can provide many other items which are covered in further publications and can provide additional advice.

Examples of calculation methods used when making a selection are included within this catalogue together with advice and information about mounting.

In line with our policy of continuous improvement, we reserve the right to amend the details in this catalogue without prior notice. If you have any doubts when making an application selection, or if you require additional information, please contact NSK-RHP.

NSK-RHP UK Ltd.

Mere Way, Ruddington, Nottingham,
NG11 6JZ, England.
Tel: 01115 936 6600 Fax: 01115 936 6702

NSK-RHP Ibérica S.A.

Calle De La Hidraulica,
5, Poligono Industrial "La Ferreria",
08110 Montcada I Reixac, Barcelona, Espana.
Tel: (93) 575 4041 Fax: (93) 575 0520

NSK-RHP Deutschland GmbH

Verwaltung Ratingen, Harkortstrasse 15,
40880 Ratingen, Deutschland.
Tel: 0 21 02 4810 Fax: 0 21 02 48 12 29

NSK-RHP Italia S.p.A.

Via XX Settembre, 30, 20024 Garbagnate,
Milanese (Milano), Italia
Tel: (02) 995 191 Fax: (02) 9902 5778

NSK-RHP Nederland B.V.

Bouwerij 81, 1185 XW Amstelveen,
Netherlands.
Tel: (020) 647 0711 Fax: (020) 645 5689

NSK-RHP France S.A.

Quartier De L'Europe,
2 Rue Georges Guynemer,
78283 Guyancourt, Cedex, France.
Tel: 01 30 57 39 39 Fax: 01 30 57 00 01

NSK-RHP Europe Ltd

Warsaw Liaison Office,
Oddział w Warszawie,
UL. Migdalowa 4 Lok. 73,
02-796 Warsaw, Poland
Tel: 48-22-645-1525 Fax: 48-22-645-1529

NSK-RHP Rulmanlari Orta Dogu Ticaret

Limited Sirketi

Eski Üsküdar Cad., Çayir Yolu Sok.,
Nora Center, Kat 1.
81090 İçerenköy-Istanbul, Turkey
Tel: 90 216 463 61 56 Fax: 90 216 463 61 47
3 Te Apunga Place, Mt. Wellington, Auckland,
New Zealand.
Tel: (09) 276 4992 Fax: (09) 276 4082

NSK-RHP Australia Pty. Ltd.

11 Dalmore Drive, Scoresby, Victoria 3179,
Australia.
Tel: (03) 9764 8302 Fax: (03) 9764 8304

NSK-RHP South Africa (Pty) Ltd.

25 Galaxy Avenue, Linbro Business Park,
Sandton, P.O.Box 1157, Kelvin, 2054,
South Africa
Tel: (011) 458 3600 Fax: (011) 458 3608

NSK-RHP American Distribution Centre Inc.

5201 Blue Lagoon Drive, Suite 670, Miami,
Florida 33126, USA
Tel: 305-261 7824 Fax: 305-261 6246

NSK Singapore (Pte) Ltd.

48 Toh Guan Road #02-03
Singapore 608837
Tel: 65 278 1711 Fax: 65 273 0253

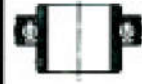
NSK Corporation

3861 Research Park Drive, P.O. Box 1507
Ann Arbor, MI 48108 USA
Tel: 734-761-9500 Fax: 734 761 9510

Introduction	2
Product Selection	3
Summary of Self-Lube types	6
The Self-Lube product range	9
The Self-Lube Protector	10
Sealing, cages and lubrication	11
Shaft locking arrangements	13
Set screw thread and tightening torques	14
Mounting instructions for Self-Lube Bearing units	15
Bearing load ratings and endurance	17
Examples of bearing calculations	19
Loading ratios	20
Housing loads	21
Tolerances and speeds	22
Cast Iron Self-Lube units	24
Pressed steel Self-Lube units	70
Self-Lube Bearing inserts	80
Sealed radial ball bearing with spherical outside diameter	93
Disc harrow bearings	94
Self-Lube Protector details	102
Additional products	103
Conversion tables	105
Notes	108

Housing type ▼

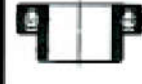
Insert type



1006G



1006DEC



1200G



1206DEC

Cast iron
one piece

Page	80	82	83	84
24	NP	NP-DEC	NP-A	NP-EC
30	SL	SL-DEC	SL-A	SL-EC
32	MP			
36	SNP	SNP-DEC	SNP-A	SNP-EC
38	CNP	CNP-DEC	CNP-A	CNP-EC
39	SF	SF-DEC	SF-A	SF-EC
40	MSF			
44	SFT	SFT-DEC	SFT-A	SFT-EC
46	MSFT			
50	LFTC	LFTC-DEC	LFTC-A	LFTC-EC
52	FC	FC-DEC	FC-A	FC-EC
54	MFC			
56	ST	ST-DEC	ST-A	ST-EC
58	MST			
62	BT		BT-A	BT-EC
64	SLC	SLC-DEC	SLC-A	SLC-EC
66	MSC			
68	SCHB			
69	SCH			
70	SLFE	SLFE-DEC	SLFE-A	SLFE-EC
72	SLFT	SLFT-DEC	SLFT-A	SLFT-EC
74	SLFL	SLFL-DEC	SLFL-A	SLFL-EC
76	LPS	LPS-DEC	LPS-A	LPS-EC
78	LPBR	LPBR-DEC	LPBR-A	LPBR-EC

Pressed
steel
two piece

Insert type



T1006G



T1006 DEC



1000-GFS



1000-DECDFS



1000-KG

88	90	91	92	Page
TNP	TNP-DEC	NP-FS	NP-DECFS	28
TSL	TSL-DEC	SL-FS	SL-DECFS	
TMP		MP-FS		34
TSNP	TSNP-DEC	SNP-FS	SNP-DECFS	
TGNP	TGNP-DEC	CNP-FS	CNP-DECFS	
TSF	TSF-DEC	SF-FS	SF-DECFS	42
TMSF		MSF-FS		
TSFT	TSFT-DEC	SFT-FS	SFT-DECFS	48
TMSFT		MSFT-FS		
TLFTC	TLFTC-DEC	LFTC-FS	LFTC-DECFS	
TFC	TFC-DEC	FC-FS	FC-DECFS	
TMFC		MFC-FS		
TSST	TSST-DEC	ST-FS	ST-DECFS	60
TMST		MST-FS		
TBT		BT-FS		
TSLO	TSLO-DEC	SLC-FS	SLC-DECFS	
TMSC		MSC-FS		
TSCHB		SCHB-FS		
TSCH		SCH-FS		
TSLFE	TSLFE-DEC	SLFE-FS	SLFE-DECFS	
TSLFT	TSLFT-DEC	SLFT-FS	SLFT-DECFS	
TSLFL	TSLFL-DEC	SLFL-FS	SLFL-DECFS	



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

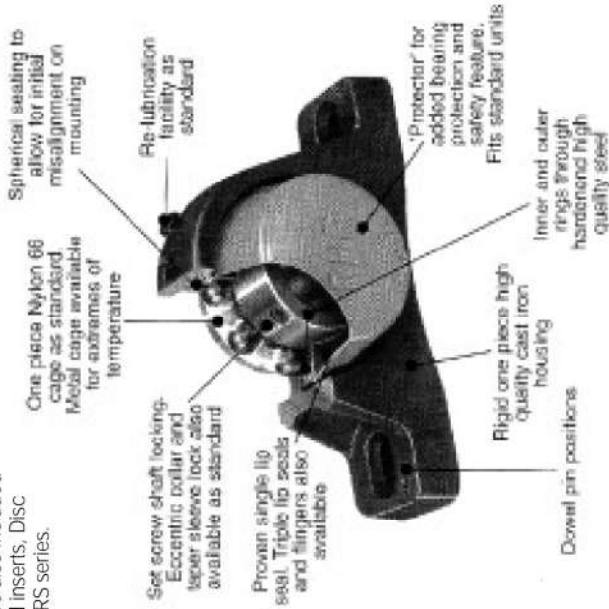
Self-Lube bearing insert

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

They are basically deep-groove ball bearings to the internationally popular 6200 series configuration with integral design features making them more functional and versatile than the standard ball bearing. The radial internal clearance is C3 for standard bearing inserts and they are 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, seals and lubrication are explained in the following pages.

Variations of the basic series which have been designed for specific applications are also included in this catalogue, e.g. Triple Lip Seal inserts, Disc Harrow bearings and the 1726200-2RS series.



Self-Lube bearing unit

The RHP range of Self-Lube bearing units offer a wide choice of cast iron, pressed steel or synthetic rubber housings fitted with the full range of Self-Lube bearing inserts, with spherical outside diameter. 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 casings are made from high-quality cast iron, and finished on all 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.

Additional Products

RHP does recognise the need for the 'tailor made' 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. The glossary of some of the special inserts and units which RHP currently manufactures is shown on pages 103 to 104.

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 finger seals.
- G Bearing insert having relubrication facility.
- H Bearing insert with hexagon bore.
- HLT High and Low temperature bearing insert.
- J Bearing insert with pressed steel cage.
- K Bearing insert with tapered bore.
- L Larger than normal unit for the basic bore size.
- R Smaller than normal unit for the basic bore size.

Self-Lube Protector

The RHP 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 with 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.

The Protector can be removed by inserting a form of lever device into the 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.

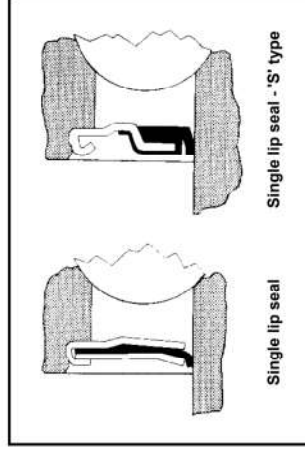


(Patented)

Single lip seal

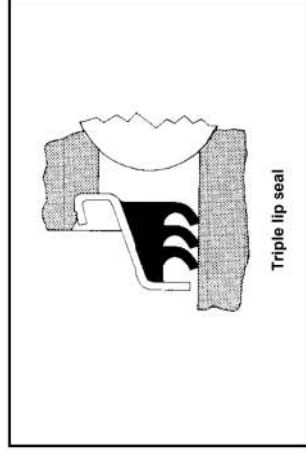
The standard Self-Lube sealing arrangement consists of a nitrile and fabric sealing element sandwiched between two metal pressings. This has been successfully proven over the years on a wide variety of applications.

The 'S' type seal now introduced incorporates further design developments. The nitrile seal (black in colour) is bonded to a strong steel former firmly secured in the bearing outer ring. The flexible sealing lip contacts the fine ground finish of the inner ring to give low friction with effective sealing.



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 88 to 90 inclusive.



Cages

Plastic cages. All standard Self-Lube bearing inserts are fitted with nylon 66 cages.

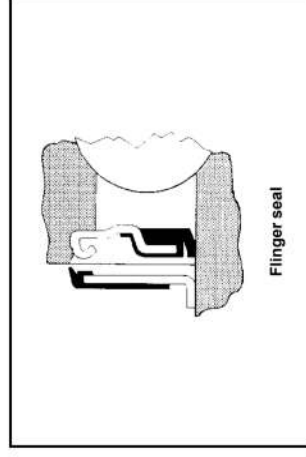
Steel cages. Bearings specified to operate at extremes of temperature are fitted with steel cages.



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 1000 and 1000DEC types and are identified with the suffix FS (e.g. 1025-25GFS.NP25FS). Please check availability.



Lubrication

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

Re-lubrication is not normally necessary except when operating at extremes of temperature, speed, loading, extended running, or where excessive wet or dirty conditions exist. The re-greasing cycle is dependent upon each application, and in such cases please consult NSK-RHP, or refer to the RHP Technical Handbook.

All cast iron units are fitted with a standard re-greaseable bearing insert. The housings are provided with a tapped hole to facilitate relubrication and supplied with a plastic plug and grease nipple. All such units are tapped 1/4" UNF except for the FC series which is tapped M5 x 0.8 pitch.

Note: A grease adapter (ref. 1003G) is available to fit the 1/4" UNF tapped hole to give 1/8" BSP female fitting.

To make the unit re-greaseable, insert grease nipple provided.

The pressed steel housings are not provided with a re-greasing facility.

Suitable greases for re-lubricating standard Self-Lube bearings are premium quality lithium based of No. 2 1/2 or No.3 consistency. See table below.

Unit	Unit temperature range	Grease	Supplier
Standard	-20°C to +110°C	Nerita HV Albida R2 Alvania R3 Alvania RA LZR2 Energrease LS3 BP Beacon 3 Multis Special 3 Lupus A3 Mobilux 3	Shell Shell Shell Shell Silkolene Esso Petroleum Total Century Oils Mobil Oil
Low Temperature	down to -40°C	Klüber Asonic HQ72-102	
High Temperature	up to 180°C	Klüber Asonic HQ72-102	

High and Low temperature inserts/units

Bearing inserts and units can be supplied for operating up to a maximum temperature of +180°C and down to a minimum temperature of -40°C.

Re-greasing is essential for these bearings using the recommended grease shown in the table. Other greases must not be used.

These bearings are fitted with a steel cage and provided with C5 radial internal clearance as standard.

When ordering please add the suffix HLT to the insert or unit reference, e.g. NP25EC HLT.

Set screw lock

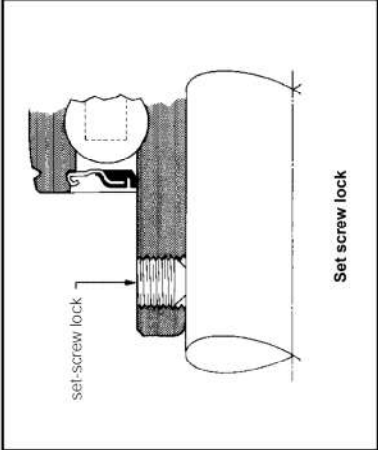
This locking arrangement consists of two knurled cup-point, self-locking, socket-head set screws fitted in the extended inner ring.

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 unit in 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.

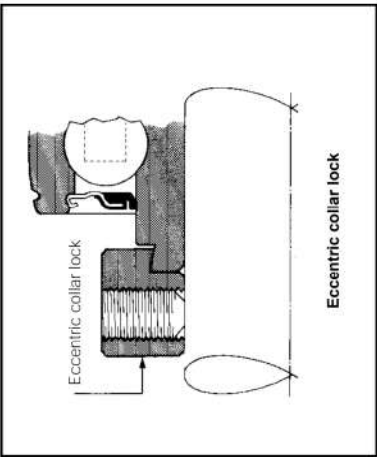
The recommended tightening torques for the set screws are given on page 14.



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 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 14 prevents the collar 'backing off' in service.

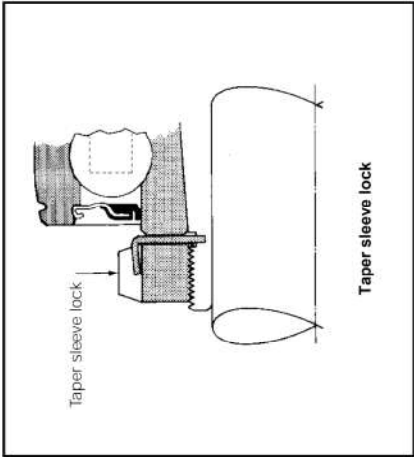


Taper sleeve lock

This locking arrangement which incorporates a standard taper adapter sleeve, locknut and lock (shaft) lock is required.

When fitting the bearing to the shaft, care must be taken to ensure that the locknut is not overtightened 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 page 15 for fitting instructions.)

The recommended tightening torques for the locknuts are given on page 14.



Set screw thread and size

Basic bearing insert reference	Series		1000G, 1100, 1200G, 1300		1000 DECG, 1100DEC, 1200ECG, 1300EC	
	Inch bore diameters		Metric bore diameters		Inch bore diameters	
	Metric bore diameters		Inch bore diameters		Metric bore diameters	
1017	1/4UNF	M6 x 0.75	1/4UNF	M6 x 0.75	1/4UNF	M6 x 0.75
1020	1/4UNF	M6 x 0.75	1/4UNF	M6 x 0.75	1/4UNF	M6 x 0.75
1025	1/4UNF	M6 x 0.75	1/4UNF	M6 x 0.75	1/4UNF	M6 x 0.75
1030	1/4UNF	M6 x 0.75	1/4UNF	M6 x 0.75	5/16UNF	M8 x 1.00
1035	1/4UNF	M6 x 0.75	1/4UNF	M6 x 0.75	3/8UNF	M10 x 1.25
1040	5/16UNF	M8 x 1.00	5/16UNF	M8 x 1.00	3/8UNF	M10 x 1.25
1045	5/16UNF	M8 x 1.00	5/16UNF	M8 x 1.00	3/8UNF	M10 x 1.25
1050	5/16UNF	M8 x 1.00	5/16UNF	M8 x 1.00	3/8UNF	M10 x 1.25
1055	3/8UNF	M10 x 1.25	3/8UNF	M10 x 1.25	3/8UNF	M10 x 1.25
1060	3/8UNF	M10 x 1.25	3/8UNF	M10 x 1.25	3/8UNF	M10 x 1.25
1065	3/8UNF	M10 x 1.25	3/8UNF	M10 x 1.25	3/8UNF	M10 x 1.25
1070	3/8UNF	M10 x 1.25	3/8UNF	M10 x 1.25	3/8UNF	M10 x 1.25
1075	7/16UNF	M12 x 1.25	7/16UNF	M12 x 1.25	7/16UNF	M12 x 1.25
1080	7/16UNF	M12 x 1.25	7/16UNF	M12 x 1.25	7/16UNF	M12 x 1.25
1085	1/2UNF	M12 x 1.25	1/2UNF	M12 x 1.25	1/2UNF	M12 x 1.25
1090	1/2UNF	M12 x 1.25	1/2UNF	M12 x 1.25	1/2UNF	M12 x 1.25
3095	1/2UNF	M12 x 1.25	1/2UNF	M12 x 1.25	1/2UNF	M12 x 1.25

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
1/4UNF	1/8"	6.8	60	2500	560
5/16UNF	5/32"	12.4	110	3500	785
3/8UNF	3/16"	22.6	200	4500	1010
7/16 UNF	7/32"	31.6	280	7500	1685
1/2UNF	1/4"	45.2	400	9000	2025
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 1.25	6mm	38.4	340	8000	1800

Note For axial loads in excess of the values listed a shouldered shaft against the face of the inner ring is recommended. Maximum axial loads with a shouldered shaft are shown on page 21.

Recommended tightening torques for adapter sleeve units

Sleeve bore size	Tightening torques Nm	lbf-ins
20mm, 3/4"	30	265
25mm, 15/16", 1"	40	355
30mm, 1 1/8", 1 3/16"	50	440
35mm, 1 1/4", 1 3/8"	60	530
40mm, 1 7/16", 1 1/2"	65	575
45mm, 1 11/16", 1 5/4"	75	660
50mm, 1 13/16", 2"	85	750

General notes on mounting

To prevent the possibility of damage to the bearing due to faulty installation, Self-Lube housings should always be bolted to the equipment and secured in position together with the shaft assembly before locking the inner rings onto the shaft. Failure to do so could result in axial preload leading to premature failure.

Clean, straight shafting should always be used, with a chamfered shaft end to provide a lead into the bearing bore.

It is important to ensure that the set screws are clear of the bearing bore before the unit is assembled onto the shaft.

The Self-Lube bearings will normally slide over the shaft but if a force fit is required a correctly sized brass tube should be used to press against the inner ring face. Never hammer the end of the inner ring or housing as this may damage the bearing.

When a shaft mounting is complete, turn the shaft to make certain it rotates freely without binding.

When using the spot drill method for the set screw seating, be careful not to damage the screw threads of the inner ring with the drill.

All cast iron bearing housings should be mounted, whenever possible, so that they are in compression under load, not tension, i.e. take-up units should be mounted with the adjuster pushing against the housing for take-up adjustment.

Cast iron housings should not be used on applications with heavy reversing or pulsating axial loads.

Special consideration should be given to applications with long bearing centre distances, or cases where the bearing could be subject to induced loads caused by differential expansion due to temperature change. In such cases please consult NSK-RHP.

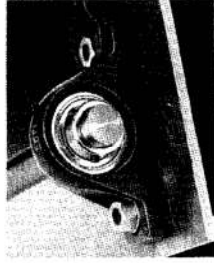
Additional notes on mounting Self-Lube adapter sleeve units

- 1 First bolt the Self-Lube housing to the equipment and clean the shaft and sleeve bore of any oil or grease.
- 2 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 14.
- 3 Where torque spanner facilities are not available a blunt drift and small hammer may be used to tighten the nut.
- 4 Check that the bearing rotates freely, to ensure that the internal clearance has not been totally removed and that preload has been avoided.
- 5 Finally, secure the nut with the appropriate tab on the locking washer.
- 6 After 100 hours running it is advisable to check the tightness of the locknut.

Self-Lube cast iron pillow block units



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

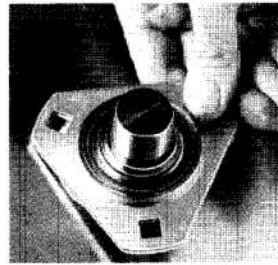


- 2 Bolt the unit down on to a flat surface but do not over-tighten.

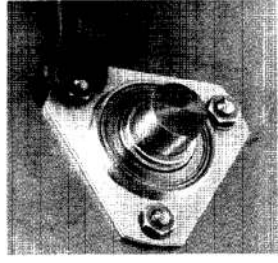


- 3 Tighten set screws to recommended torque.

Self-Lube pressed steel flange units



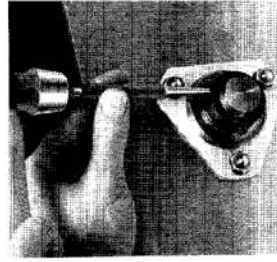
- 1 Assemble bearing and housing and slide onto the shaft. Do not engage collar.



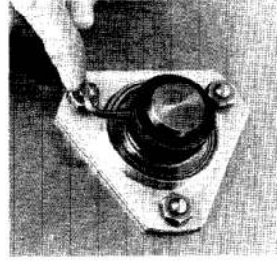
- 2 Lightly tighten bolts, repeat at other end of shaft and then finally tighten bolts on both sides.



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



- 4 Tighten collar with drift pin.



- 5 Tighten collar set screw to recommended torque.

Dynamic load ratings

The RHP dynamic load ratings given in this catalogue and the relationship between these and bearing fatigue life are based on the ISO standard 281. (1990)

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_0 = axial load factor

Note: Axial load F_a must not exceed $0.5 C_{or}$. Select f_0 from table 18.1 for the appropriate bearing insert. Calculate $\frac{f_0 F_a}{C_r}$ and obtain the value of Y from table 18.2

Calculate P_r where:

$$P_r = F_r$$

or

$$P_r = 0.56 F_r + Y F_a$$

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:

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

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 20 under the appropriate speed column.

Basic static load rating C_{or}

This value is calculated in accordance with ISO standard 76 - 1987. 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 to 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 below:

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_{0a} must not exceed half the basic static load rating C_{0r} . Housing strengths must also be considered as a limiting factor - see page 21.

Table 18.1

Basic bearing insert	f_0
1017	13.1
1020	13.1
1025	13.9
1030	13.8
1035	13.8
1040	14.0
1045	14.1
1050	14.4
1055	14.3
1060	14.3
1065	14.4
1070	14.4
1075	14.7
1080	14.6
1085	14.7
1090	14.5
3095	13.6

Table 18.2

$f_0 F_a$ C_{0r}	Y
0.172	2.30
0.345	1.99
0.689	1.71
1.03	1.55
1.38	1.45
2.07	1.31
3.45	1.15
5.17	1.04
6.89	1.00

Example 1

What nominal life can be obtained from NP55 with a steady radial load $F_r = 3900\text{N}$ at a speed of 1500 rev/min? The dynamic load rating C_r of the unit from page 25 is 43500N. Since the bearing is not subject to axial load the equivalent load $P_r = F_r$ according to the formula on page 17. Therefore applying the service factor of 1.2 for a steady load (given on page 17)

$P_r = F_r \times 1.2 = 3900 \times 1.2 = 4680\text{N}$

From page 17,

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

$$= \left(\frac{43500}{4680}\right)^3 \times \frac{10^6}{1500 \times 60}$$

$$= 8923 \text{ hours}$$

Alternatively, using the loading ratio tables on page 20 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 $F_r = 2940\text{N}$ and an axial load $F_a = 1470\text{N}$ 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 39 is 29100N and the static load rating (C_{0r}) is 17900N.

Since the bearing is subject to radial and axial loads we have to establish the equivalent load P_r according to page 17.

First, we establish the value of $\frac{f_0 F_a}{C_{0r}}$.

$$\frac{f_0 F_a}{C_{0r}} = \frac{14.0 \times 1470}{17900} = 1.15$$

Using this value, from table 18.2 we establish a value for Y = 1.52 by interpolation. From page 17 we then calculate the value of P_r .

$P_r = 2940\text{N}$

or $P_r = 0.56 (2940) + 1.52 (1470) = 3881\text{N}$

Using the greater value of P_r and applying an application factor of 1.7 (page 17) for moderate shock loads then:

$P_r = 3881 \times 1.7$

$= 6598\text{N}$

From page 17:

$$L_{10} \text{ life hours} = \left(\frac{C_r}{P_r}\right)^3 \times \frac{10^6}{n}$$

$$= \left(\frac{29100}{6598}\right)^3 \times \frac{10^6}{60 \times 300}$$

$$= 4766 \text{ hours}$$

Alternatively, using the loading ratio tables on page 20, an approximate life can be obtained by locating the nearest C_r/P_r value in the appropriate rev/min column.

Therefore, $C_r/P_r = 29100/6598 = 4.41$.

Under the 300 rev/min column page 20 the nearest value is 4.48 which gives an approximate life of 5000 hours.

Housing strength

To check the housing strength for the above example when the axial load $F_a = 1470\text{N}$ and applying an application factor of 1.7 then:

axial load = $1470 \times 1.7 = 2499\text{N}$

From page 21 we see that the maximum axial loads for the above unit are:

0.45 C_{0r} in one direction, and

0.25 C_{0r} in the opposite direction.

Calculating these two maximum axial loads that may be applied to housing:

$0.45 \times 17900 = 8055\text{N}$

$0.25 \times 17900 = 4475\text{N}$

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.

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

L ₁₀ life (hours)	Speed: rev/min									
	25	50	100	150	200	300	500	750	1000	
100		1.14	1.45	1.82	2.29	1.06	1.22	1.45	1.65	1.82
500	1.14		1.82	2.08	2.29	2.08	2.47	2.82	3.11	
1000										
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	10.6	
30000	3.56	4.48	5.65	6.46	7.11	8.14	9.65	11.1	12.2	
40000	3.91	4.93	6.21	7.11	7.81	8.96	10.6	12.2	13.4	
60000	4.48	5.65	7.11	8.14	8.96	10.3	12.2	13.9	15.3	
80000	4.93	6.21	7.81	8.96	9.83	11.3	13.4	15.3	16.8	

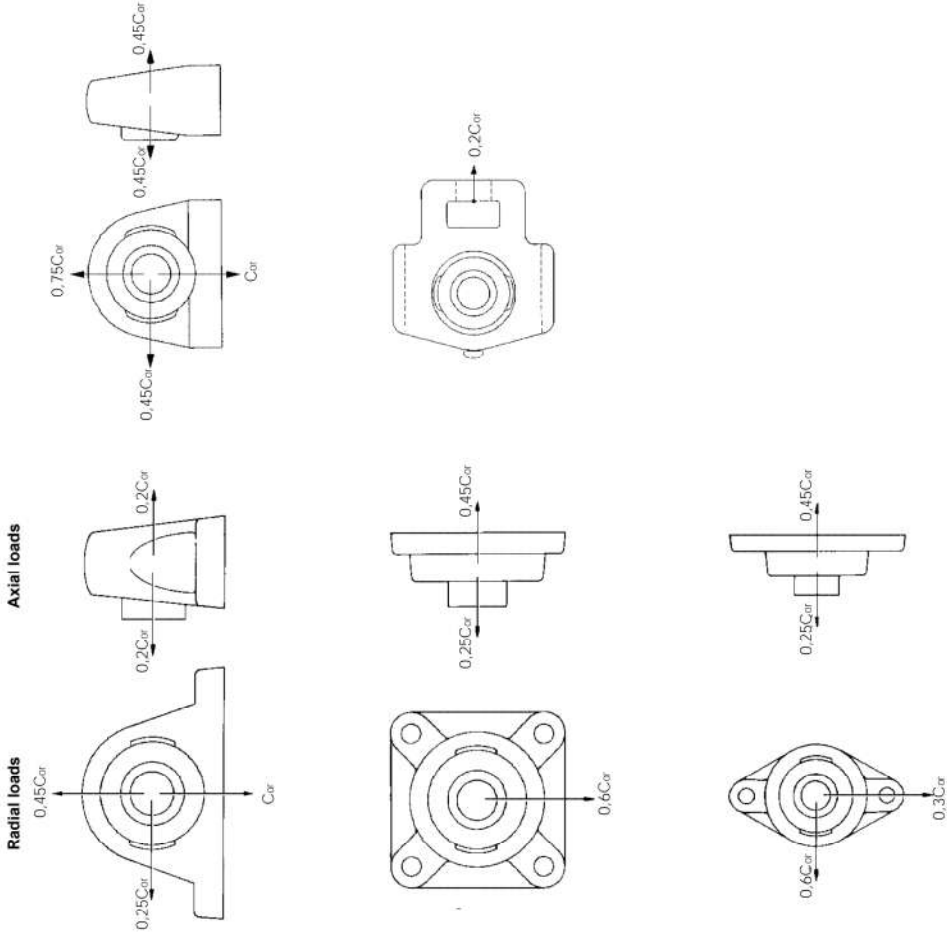
L ₁₀ life (hours)	Speed: rev/min									
	1500	2000	3000	4000	5000	6000	8000	10000		
100	2.08	2.29	2.62	2.88	3.11	3.30	3.63	3.91		
500	3.56	3.91	4.48	4.93	5.32	5.65	6.21	6.69		
1000	4.48	4.93	5.65	6.21	6.70	7.11	7.81	8.43		
1500	5.13	5.65	6.46	7.11	7.65	8.15	8.96	9.65		
2000	5.65	6.21	7.11	7.81	8.43	8.96	9.83	10.6		
3000	6.46	7.11	8.14	8.96	9.65	10.3	11.3	12.2		
5000	7.66	8.43	9.65	10.6	11.5	12.2	13.4	14.4		
7500	8.77	9.65	11.1	12.2	13.1	13.9	15.3	16.5		
10000	9.65	10.6	12.2	13.4	14.5	15.3	16.8	18.2		
19500	11.1	12.2	13.9	15.3	16.5	17.5	19.3	20.8		
20000	12.2	13.4	15.3	16.8	18.2	19.3	21.2	22.9		
30000	13.9	15.3	17.5	19.3	20.8	22.1	24.3	26.2		
40000	15.3	16.8	19.3	21.2	22.9	24.3	26.7	28.8		
60000	17.5	19.3	22.1	24.3	26.2	27.8	30.7	33.0		
80000	19.3	21.2	24.3	26.7	28.8	30.7	33.7	36.3		

Maximum recommended steady housing loads

The maximum loads shown below are given as a proportion of the static load rating (C_{0r}) of the bearing insert. Where the value of the axial load exceeds the set screw axial holding load listed on page 14, 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



Refer to RHP for other types giving application details

Tolerances and speeds

Inner ring bore tolerances - Set screw and eccentric collar types

Nominal bore diameter d		Tolerance							
mm	above	incl.	inch	above	incl.	0.001mm units		0.0001 inch units	
						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			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

The inner ring tolerances above do not apply to Disc Harrow type bearings shown on pages 94-101.

Inner ring bore tolerances - series 1726200 - 2RS and 1726300 - 2RS.

Nominal bore diameter d							
mm		incl.		inch above		0.001mm units	
above						high	low
				incl.		high	low
10	18	0.3937		0.7087		0	-3
18	30	0.7087		1.1811		0	-10
30	50	1.1811		1.9685		0	-12
						0	-5

Outer ring outside diameter tolerances

Nominal outside diameter D		Tolerance					
		incl.		0.001mm units		0.0001 inch units	
mm	above	incl.		high	low	high	low
30	50	0		0		0	-4
50	80	0		-11		0	-5
80	120	0		-13		0	-6
120	150	0		-15		0	-7
150	180	0		-18		0	-10
180	250	0		-25		0	-12

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

Nominal housing bore		Stationary outer ring				Rotating outer ring			
		Housing tolerance ISO H7		Housing tolerance ISO N7		Housing tolerance ISO H7		Housing tolerance ISO N7	
mm	above	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 diameter		High loads - high speeds						Normal applications						Light loads - low speeds					
			Max. speed rev/min		ISO h6		0.001mm units		0.0001inch units		Max. speed rev/min		ISO h7		0.001mm units		Max. speed rev/min		ISO h9	
	mm	inches	high		low		high		low		high		low		high		high		low	
			rev/min		units		rev/min		units		rev/min		units		rev/min		rev/min		units	
1017	12-17	1/2-11/16	8800		0		-11		0		5000		0		-18		2000		0	
1020	20	3/4	7450		0		-13		0		4200		0		-21		1700		0	
1025	25	11/16-1	6250		0		-13		0		3600		0		-21		1350		0	
1030	25-30	1/2-11/4	5300		0		-13		0		3100		0		-21		1100		0	
1035	30-35	11/16-17/16	4500		0		-16		0		2700		0		-25		900		0	
1040	35-40	11/16-17/16	4000		0		-16		0		2400		0		-25		750		0	
1045	40-45	11/16-13/4	3700		0		-16		0		2200		0		-25		600		0	
1050	45-50	15/16-2	3400		0		-16		0		1950		0		-25		500		0	
1055	50-55	17/16-23/16	3100		0		-19		0		1800		0		-30		450		0	
1060	55-60	21/16-27/16	2800		0		-19		0		1600		0		-30		400		0	
1065	65	21/16	2600		0		-19		0		1500		0		-30		350		0	
1070	60-70	27/16-271/16	2450		0		-19		0		1400		0		-30		300		0	
1075	65-75	211/16-215/16	2300		0		-19		0		1300		0		-30		280		0	
1080	75-80	215/16-31/4	2150		0		-19		0		1200		0		-30		250		0	
1085	80-85	31/16-37/16	2000		0		-22		0		1100		0		-35		220		0	
1090	85-90	37/16-31/2	1900		0		-22		0		1050		0		-35		200		0	
3095	95-100	315/16-4	1600		0		-22		0		1000		0		-35		180		0	

For most applications the standard set screw lock is more than satisfactory.

Whenever eccentric collar units are used it is recommended that the high loads column of shaft tolerances be adopted.

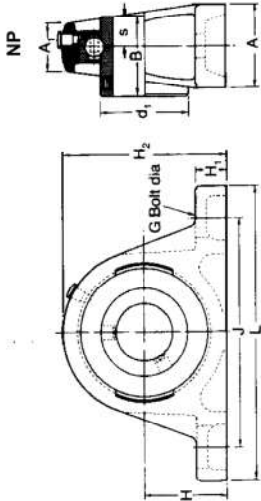
Whenever taper adapter sleeve locking arrangements are used the light loads column of shaft tolerances can be adopted.

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.

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

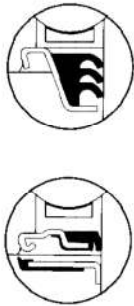
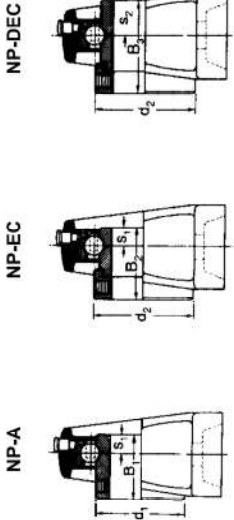
Bearing unit reference	Housing tolerance	
	Stationary housing	Rotating housing
SLC	ISO H7	ISO N7
MSC		
FC		ISO H7
MFC		

NP SERIES



Shaft diameter	RHP designation	Basic bearing insert	Casting Dimensions					bolt centres	
			L	H	H ₁	H ₂	J _{max}	J _{min}	
mm	inches		mm					inches	
12	NP12EC	NP12EC	126.5	30.20	14.2	57.2	100.5	85.5	
15	NP15EC	NP15EC	4.980	1.189	.559	2.252	3.957	3.366	
16	NP16EC	NP16EC							
17	NP17EC	NP17EC							
1/2	NP1/2EC	NP1/2EC							
5/8	NP5/8EC	NP5/8EC							
20	NP20EC	NP20EC	127.0	33.30	14.0	65.2	100.5	88.5	
3/4	NP3/4EC	NP3/4EC	5.000	1.311	.551	2.567	3.957	3.484	
25	NP25EC	NP25EC	139.0	36.50	16.0	71.0	112.7	96.8	
7/8	NP7/8EC	NP7/8EC	5.472	1.437	.630	2.795	4.437	3.811	
1 15/16	NP1 15/16EC	NP1 15/16EC							
1	NP1EC	NP1EC							
30	NP30EC	NP30EC	160.5	42.90	17.7	82.7	129.5	108.5	
1 1/4	NP1 1/4EC	NP1 1/4EC	6.319	1.689	.697	3.256	5.098	4.272	
1 3/16	NP1 3/16EC	NP1 3/16EC							
1 1/4	NP1 1/4EC	NP1 1/4EC							
35	NP35EC	NP35EC	166.0	47.60	17.5	93.0	136.5	121.5	
1 1/4	NP1 1/4EC	NP1 1/4EC	6.535	1.874	.689	3.661	5.374	4.783	
1 3/8	NP1 3/8EC	NP1 3/8EC							
1 7/16	NP1 7/16EC	NP1 7/16EC							
40	NP40EC	NP40EC	180.5	49.20	18.5	98.5	148.0	127.0	
1 1/2	NP1 1/2EC	NP1 1/2EC	7.106	1.937	.728	3.878	5.827	5.000	
45	NP45EC	NP45EC	190.5	54.00	20.0	108.0	154.5	140.5	
1 5/8	NP1 5/8EC	NP1 5/8EC	7.500	2.126	.787	4.252	6.083	5.531	
1 3/4	NP1 3/4EC	NP1 3/4EC							
50	NP50EC	NP50EC	206.0	57.20	21.0	115.2	163.0	154.0	
1 7/8	NP1 7/8EC	NP1 7/8EC	8.110	2.252	.827	4.535	6.417	6.063	
1 51/16	NP1 51/16EC	NP1 51/16EC							
2	NP2EC	NP2EC							
55	NP55EC	NP55EC	219.5	63.50	24.8	129.5	178.5	162.5	
2 1/8	NP2 1/8EC	NP2 1/8EC	8.641	2.500	.976	5.098	7.028	6.398	
2 1/16	NP2 1/16EC	NP2 1/16EC							
60	NP60EC	NP60EC	240.0	69.90	26.3	142.3	201.0	176.0	
2 1/4	NP2 1/4EC	NP2 1/4EC	9.449	2.752	1.035	5.602	7.913	6.929	
2 3/8	NP2 3/8EC	NP2 3/8EC							
2 7/16	NP2 7/16EC	NP2 7/16EC							

Please check availability

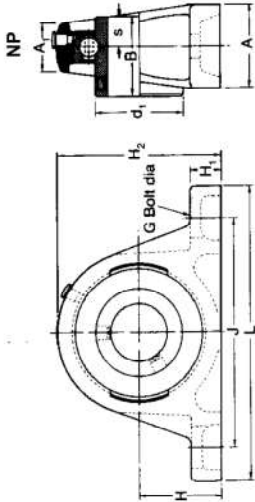


Bearing inserts with finger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. NP40FS.

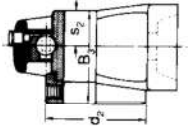
Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TNP25.

G	A	B	B ₁	B ₂	B ₃	S	S ₁	S ₂	d ₁	d ₂	ISO load ratings		Rec. max. speed	Mass
											dynamic C _r	static C _{0r}		
											newtons lbf	newtons lbf	rev/min	kg lb
mm														
inches														
10	30.5	20.5	27.38	28.54	28.54	11.55	6.55	24.21	28.58	4760	9550	4760	7000	0.5
3/8	1.201	.807	1.078	1.124	1.124	.455	.258	.953	1.125	2150	2150	1070		1.0
10	32.5	22.5	30.96	30.92	30.92	12.75	7.56	28.50	33.30	12800	12800	6580	6700	0.6
3/8	1.280	.886	1.219	1.015	1.217	.502	.298	.953	1.311	2880	2880	1480		1.4
10	36.5	24.5	34.11	30.92	30.92	14.32	7.56	34.01	38.10	14000	14000	7880	6250	0.7
3/8	1.437	.965	1.343	1.077	1.217	.564	.298	1.339	1.500	3150	3150	1770		1.5
12	41.5	27.5	38.10	31.21	35.68	15.93	9.04	40.00	44.45	19500	19500	11300	5300	1.3
1/2	1.634	1.083	1.500	1.229	1.405	.627	.356	1.575	1.750	4380	4380	2540		2.9
12	44.5	30.5	42.88	34.90	38.88	17.53	9.55	46.69	55.58	25700	25700	15300	4500	1.7
1/2	1.752	1.201	1.688	1.374	1.531	.690	.376	1.838	2.188	5780	5780	3440		3.8
12	51.0	34.5	49.23	41.18	43.64	19.10	11.05	52.70	60.30	29100	29100	17900	4000	2.1
1/2	2.008	1.358	1.938	1.621	1.718	.752	.435	2.075	2.374	6540	6540	4620		4.6
12	54.0	35.0	49.23	41.18	43.64	19.10	11.05	57.30	63.50	32500	32500	20500	3700	2.8
1/2	2.126	1.378	1.938	1.621	1.718	.752	.435	2.256	2.500	7310	7310	4610		6.2
16	55.0	36.0	51.59	43.54	43.64	19.10	11.05	62.20	69.85	35000	35000	23200	3400	3.2
5/8	2.165	1.417	2.031	1.714	1.718	.752	.435	2.449	2.750	7870	7870	5220		7.1
16	60.0	39.5	55.55	-	-	22.28	-	68.81	76.20	43500	43500	25200	3100	4.0
5/8	2.362	1.555	2.187	-	-	.877	-	2.709	3.000	9780	9780	6560		8.8
16	70.0	46.0	65.07	-	-	25.45	-	75.34	84.12	52500	52500	35900	2800	5.9
5/8	2.756	1.811	2.562	-	-	1.002	-	2.966	3.312	11800	11800	8070		13.1

NP SERIES
(continued)



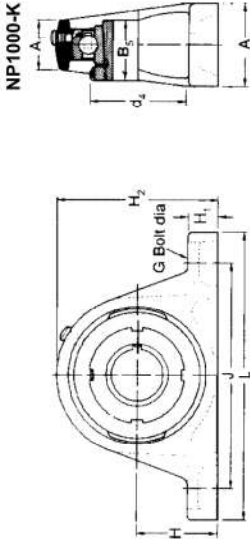
NP-DEC



Shaft diameter	RHP designation	Basic bearing insert	Casting group				Dimensions				bolt centres	
mm	inches		L	H	H ₁	H ₂	L	H	H ₁	H ₂	J max	J min
mm inches												
65	2 1/2	NP65 NP2 1/2 DEC	1065	250.0 9.843	69.90 2.752	26.3 1.035	144.3 5.681	205.0 8.071	214.0 8.425	176.0 6.929		
70	2 7/16	NP70 NP2 7/16	1070	266.0 10.472	79.4 3.126	30.2 1.189	156.0 6.142	220.0 8.661	232.0 9.134	200.0 7.874		
75	2 3/4	NP75 NP2 3/4	1075	275.0 10.827	82.6 3.252	28.0 1.102	164.0 6.457	228.0 8.976	244.0 9.606	206.0 8.110		
	2 5/8	NP7 5/8										
	2 5/16	NP2 5/16										
	3	NP3										
80	3	NP80 NP3 L	1080	291.0 11.457	88.9 3.500	30.0 1.181	174.0 6.850	241.0 9.488	254.0 10.000	214.0 8.425		
85	3 1/4	NP85 NP3 1/4	1085	310.0 12.205	95.2 3.748	32.0 1.260	187.0 7.362	262.0 10.315	276.0 10.866	232.0 9.134		
	3 3/8	NP3 3/8										
90	3 1/8	NP90 NP3 1/8	1090	327.0 12.874	101.6 4.000	36.0 1.417	200.0 7.874	280.0 11.024	294.0 11.575	244.0 9.606		
	3 1/2	NP3 1/2										

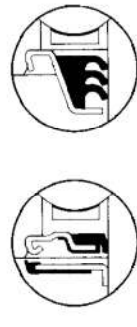
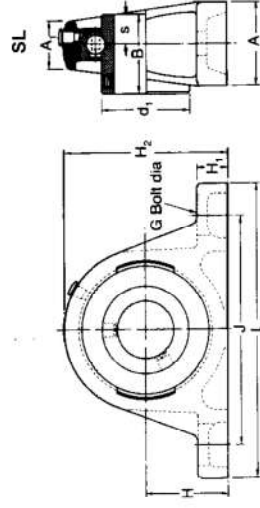
		ISO load ratings										Rec. speed	Mass (approx.)		
		dynamic				static				C _r	C _s	rev/min	kg		
		lb/ft				lb/ft				lb/ft	lb/ft	lb/ft	lb		
G	A	A _i	B	B _i	B ₂	B ₃	S	S ₁	S ₂	d ₁	d ₂				
mm															
inches															
16	70.0	45.0	65.07	-	-	77.82	25.45	-	31.02	82.40	87.33	57500	40000	2600	5.9
5/8	2.756	1.772	2.562	-	-	3.064	1.002	-	1.221	3.244	3.438	12930	8990		13.1
24	72.0	47.0	74.63	-	-	85.36	30.23	-	34.19	87.00	96.82	62000	44000	2450	8.0
7/8	2.835	1.850	2.938	-	-	3.361	1.190	-	1.346	3.425	3.812	13940	9890		17.6
24	74.0	48.0	77.77	-	-	91.72	33.37	-	37.37	92.00	101.60	66000	49300	2300	9.0
7/8	2.913	1.890	3.062	-	-	3.611	1.314	-	1.471	3.622	4.000	14840	11080		19.8
24	78.0	56.0	82.55	-	-	-	33.37	-	-	98.50	-	72500	53000	2150	9.7
7/8	3.071	2.205	3.250	-	-	-	1.314	-	-	3.878	-	16300	11910		21.4
24	83.0	56.0	85.72	-	-	-	34.18	-	-	106.02	-	83500	63800	2000	11.8
7/8	3.268	2.205	3.375	-	-	-	1.346	-	-	4.174	-	18770	14340		26.0
24	88.0	62.0	96.04	-	-	-	39.73	-	-	111.66	-	96000	71500	1900	14.7
7/8	3.465	2.441	3.781	-	-	-	1.564	-	-	4.396	-	21580	17870		32.4

NP1000-K SERIES



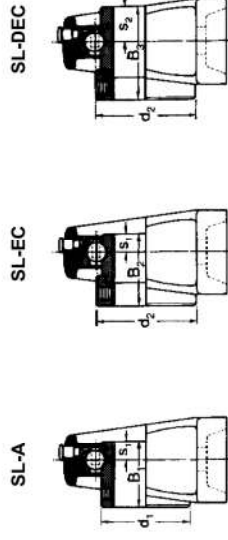
Shaft diameter	RHP designation		Basic bearing insert	Casting group	Dimensions			bolt centres		
	complete unit	sleeve, nut & lockwasher assembly only			L	H	H1	H2	J max	J min
mm	inches				mm	inches				
20			1025	3	139.0	36.50	16.0	71.0	112.7	96.8
	3/4	NP1025-20K NP1025-21/4K			5.472	1.437	.630	2.795	4.437	3.811
25			1030	4	160.5	42.90	17.7	82.7	129.5	108.5
	1 15/16 1	NP1030-25K NP1030-15/16K NP1030-1K			6.319	1.689	.697	3.256	5.098	4.272
30			1035	5	166.0	47.60	17.5	93.0	136.5	121.5
	1 1/16 1 3/16	NP1035-30K NP1035-17/16K NP1035-13/16K			6.535	1.874	.689	3.661	5.374	4.783
35			1040	6	180.5	49.20	18.5	98.5	148.0	127.0
	1 1/4 1 3/8	NP1040-35K NP1040-17/4K NP1040-13/8K			7.106	1.937	.728	3.878	5.827	5.000
40			1045	7	190.5	54.00	20.0	108.0	154.5	140.5
	1 7/16 1 1/2	NP1045-40K NP1045-17/8K NP1045-11/2K			7.500	2.126	.787	4.252	6.083	5.531
45			1050	8	206.0	57.20	21.0	115.2	163.0	154.0
	1 11/16 1 3/4	NP1050-45K NP1050-17/8K NP1050-13/4K			8.110	2.252	.827	4.535	6.417	6.063
50			1055	9	219.5	63.50	24.8	129.5	178.5	162.5
	1 15/16 2	NP1055-50K NP1055-15/16K NP1055-2K			8.641	2.500	.976	5.098	7.028	6.398

SL SERIES



Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. SL11/4FS.

Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSL1^{1/4}.

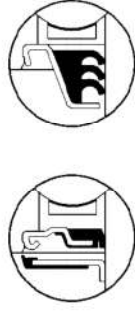


Shaft diameter	RHP designation	Basic bearing insert	Casting group	Dimensions L H H ₁ H ₂	bolt centres J max J min
mm inches			mm inches		
12	SL12EC	1017	1	119.0 26.97 11.0 54.0	85.5
15	SL15EC			4.685 1.062 -433	91.5 3.366
16	SL16EC				
17	SL17EC				
1 1/2	SL17/2				
5/8	SL5/8EC				
20	SL20EC	1020	2	126.5 31.75 12.5 63.7	100.5 88.5
3/4	SL3/4EC			4.980 1.250 -492	2.508 3.957 3.484
25	SL25EC	1025	3	139.0 33.32 12.8 67.8	110.2 98.2
7/8	SL7/8EC			5.472 1.312 -504	2.669 4.339 3.866
1 5/16	SL15/16EC				
1	SL1EC				
30	SL30EC	1030	4	161.5 39.67 14.5 79.5	130.0 109.0
1 1/8	SL11/8EC			6.358 1.562 -571	3.130 5.118 4.291
1 1/4	SL11/4EC				
35	SL35EC	1035	5	166.0 46.02 16.0 91.5	136.5 121.5
1 1/4	SL11/4EC			6.535 1.812 -630	3.602 5.374 4.783
1 3/8	SL13/8EC				
1 7/16	SL17/16EC				
40	SL40EC	1040	6	180.5 49.20 18.5 98.5	148.0 127.0
1 1/2	SL11/2EC			7.106 1.937 -728	3.878 5.827 5.000
45	SL45EC	1045	7	197.5 52.37 18.4 106.4	161.5 141.5
1 5/8	SL15/8EC			7.776 2.062 -724	4.189 6.358 5.571
1 11/16	SL111/16EC				
1 3/4	SL13/4EC				
50	SL50EC	1050	8	214.0 55.55 19.3 114.0	177.0 151.0
1 7/8	SL17/8EC			8.425 2.187 -760	4.488 6.969 5.945
1 5/8	SL155/8EC				
2	SL2EC				
55	SL55EC	1055	9	219.5 61.90 23.2 128.0	178.5 162.5
2 1/8	SL21/8EC			8.641 2.437 -913	5.039 7.028 6.398
2 1/16	SL21/16EC				
60	SL60EC	1060	10	240.0 68.25 24.6 140.6	201.0 176.0
2 1/4	SL21/4EC			9.449 2.687 -969	5.535 7.913 6.929
2 3/8	SL23/8EC				
2 1/16	SL21/16EC				
65	SL65EC	1065	10/65	250.0 68.25 24.6 142.6	205.00 176.00
2 1/2	SL21/2EC			9.843 2.687 -989	5.614 8.071 6.929
65	SL65EC	1075	11	286.0 82.55 28.0 165.5	241.5 200.5
70	SL70EC			11.260 3.250 -11.024	6.516 9.508 7.894
2 11/16	SL211/16EC				
2 3/4	SL23/4EC				
2 7/8	SL27/8EC				
2 15/16	SL215/16EC				

Please check availability

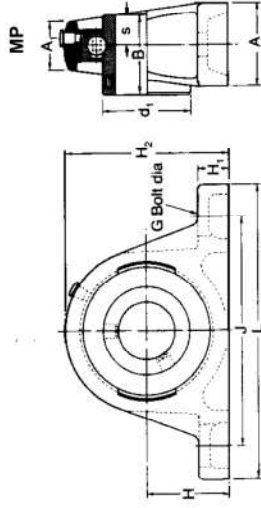
G	A	A ₁	B	B ₁	B ₂	B ₃	S	S ₁	S ₂	d ₁	d ₂	ISO load ratings		Rec. max. speed	Mass (approx.)
												C _r	C _σ		
mm															
inches															
10	30.5	20.5	27.38	-	28.54	-	11.55	6.55	-	24.21	28.58	9550	4760	7000	0.5
3/8	1.181	.807	1.078	-	1.124	-	.455	.258	-	.953	1.125	2150	1070		1.0
10	32.0	22.5	30.96	25.77	30.92	43.62	12.75	7.56	17.12	28.50	33.30	12800	6580	6700	0.6
3/8	1.260	.886	1.219	1.015	1.217	1.717	.502	.298	.674	1.122	1.311	2880	1480		1.4
10	36.0	24.5	34.11	27.35	30.92	44.40	14.32	7.56	17.49	34.01	38.10	14000	7880	6250	0.7
3/8	1.417	.965	1.343	1.077	1.217	1.748	.564	.298	.689	1.339	1.500	3150	1770		1.5
12	41.0	27.5	38.10	31.21	35.68	48.42	15.93	9.04	18.32	40.00	44.45	19500	11300	5300	1.3
1/2	1.614	1.083	1.500	1.229	1.405	1.906	.627	.356	.721	1.575	1.750	4380	2540		2.9
12	44.5	30.5	42.88	34.90	38.88	51.18	17.53	9.55	18.89	46.69	55.58	25700	15300	4500	1.7
1/2	1.752	1.201	1.688	1.374	1.531	2.015	.690	.376	.744	1.838	2.188	5780	3440		3.8
12	51.0	34.5	49.23	41.18	43.64	56.34	19.10	11.05	21.46	52.70	60.30	29100	17900	4000	2.1
1/2	2.008	1.358	1.938	1.621	1.718	2.218	.752	.435	.845	2.075	2.374	6540	4020		4.6
12	54.0	35.0	49.23	41.18	43.64	56.34	19.10	11.05	21.46	57.30	63.50	32500	20600	3700	3.0
3/4	2.126	1.378	1.938	1.621	1.718	2.218	.752	.435	.845	2.256	2.500	7310	4610		6.7
12	55.0	36.0	51.59	43.54	43.64	62.70	19.10	11.05	24.65	62.20	69.85	35000	23200	3400	3.4
1/2	2.165	1.417	2.031	1.714	1.718	2.469	.752	.435	.970	2.449	2.750	7870	5220		7.6
16	60.0	39.5	55.55	-	-	71.44	22.28	-	27.82	68.81	76.20	43500	29200	3100	4.0
3/8	2.362	1.555	2.187	-	-	2.813	.877	-	1.095	2.709	3.000	9780	6560		8.8
16	70.0	46.0	65.07	-	-	77.82	25.45	-	31.02	75.34	84.12	52500	35900	2800	6.1
3/8	2.756	1.811	2.562	-	-	3.064	1.002	-	1.221	2.966	3.312	11800	8070		13.4
16	70.0	45.0	65.07	-	-	77.82	25.45	-	31.02	82.40	87.33	57500	40000	2600	6.2
3/8	2.756	1.772	2.562	-	-	3.064	1.002	-	1.221	3.244	3.438	12930	8990		13.7
20	74.0	47.5	77.77	-	-	91.72	33.37	-	37.37	90.20	101.60	66000	49300	2300	11.6
3/4	2.913	1.870	3.063	-	-	3.611	1.314	-	1.471	3.622	4.000	14840	11080		25.3

MP SERIES



Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'FS' e.g. MP40FS.

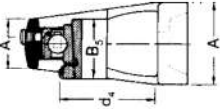
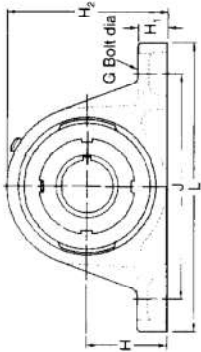
Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TMP40.

[illegible]

Please check availability

MP1000-K SERIES

MP 1000-K

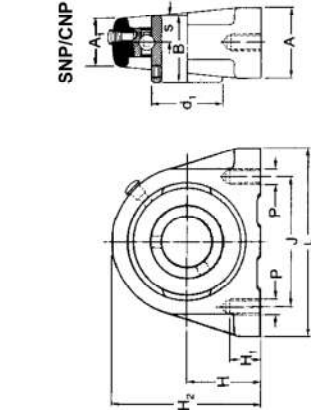


Shaft diameter	RHP designation complete unit	sleeve, nut & lockwasher assembly only	unit without sleeve, nut & lockwasher	Basic bearing insert	Casting group	Dimensions				bolt centres	
						L	H	H ₁	H ₂	J _{max}	J _{min}
mm	inches					mm	inches				
25	1 ⁹ / ₁₆ 1	MP1030-25K MP1030-1 ⁹ / ₁₆ K MP1030-1K	H306 HE306-15/ ₁₆ HE306-1	1030K	1	160.5 6.319	44.45 1.750	19.3 .760	87.4 3.441	127.5 5.020	108.5 4.272
30	1 ¹ / ₂ 1 ³ / ₁₆	MP1035-30K MP1035-1 ¹ / ₂ K MP1035-1 ³ / ₁₆ K	H307 HE307-4/ ₁₆ HE307-1/ ₁₆ K	1035K	2	166.0 6.535	47.60 1.874	17.5 .689	93.0 3.661	136.5 5.374	121.5 4.783
35	1 ¹ / ₄ 1 ³ / ₈	MP1040-35K MP1040-1 ¹ / ₄ K MP1040-1 ³ / ₈ K	H308 HE308-1 ¹ / ₄ HE308-1 ³ / ₈ K	1040K	3	203.2 8.000	53.98 2.125	23.0 .906	106.4 4.189	160.0 6.300	135.0 5.315
40	1 ⁷ / ₁₆ 1 ¹ / ₂	MP1045-40K MP1045-1 ⁷ / ₁₆ K MP1045-1 ¹ / ₂ K	H309 HE309-1 ⁷ / ₁₆ HE309-1 ¹ / ₂ K	1045K	4	222.2 8.748	58.72 2.312	22.5 .864	116.7 4.594	172.5 6.791	145.0 5.709
45	1 ⁷ / ₈ 1 ³ / ₄	MP1050-45K MP1050-1 ⁷ / ₈ K MP1050-1 ³ / ₄ K	H310 HE310-4 ¹ / ₁₆ HE310-1 ³ / ₄ K	1050K	5	222.2 8.748	58.72 2.312	22.5 .864	116.7 4.594	172.5 6.791	145.0 5.709
50	1 ¹⁵ / ₁₆ 2	MP1055-50K MP1055-1 ¹⁵ / ₁₆ K MP1055-2K	H311 HE311-1 ¹⁵ / ₁₆ HE311-2	1055K	6	219.5 8.641	63.50 2.500	24.8 .976	129.5 5.098	178.5 7.028	162.5 6.398

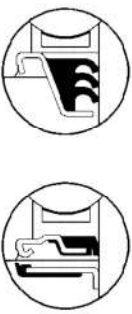
G	A	A _t	B _s	d _t	ISO load ratings		Rec. max. speed	Mass (approx.)
					C _d	C _r		
mm inches					newtons lbf	newtons lbf	rev/ min	kg lb
12 1/2	41.5 1.634	27.5 1.083	31.0 1.220	45.0 1.772	19500 4380	11300 2540	5300	1.3 2.9
12 1/2	44.5 1.752	30.5 1.201	35.0 1.378	52.0 2.047	25700 5780	15300 3440	4500	1.7 3.8
12 1/2	57.0 2.244	40.5 1.594	36.0 1.417	58.0 2.283	29100 6540	17900 4020	4000	2.2 4.8
16 5/8	60.0 2.362	39.5 1.555	39.0 1.535	65.0 2.559	32500 7310	20500 4610	3700	3.2 7.1
16 5/8	60.0 2.362	39.5 1.555	42.0 1.654	70.0 2.756	35000 7870	23200 5220	3400	3.2 7.1
16 5/8	60.0 2.362	39.5 1.555	45.0 1.772	75.0 2.953	43500 9780	29200 6560	3100	4.0 8.8

SNP SERIES (metric thread)
CNP SERIES (UNC thread)**

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



Shaft diameter	RHP designation		Basic bearing insert	Dimensions								
	mm	inches		L	H	H ₁	H ₂	J				
20	3/4	SNP20 SNP1/4	SNP20A SNP1/4A	SNP20EC SNP1/4EC	SNP20DEC SNP1/4DEC	1020	2	65.0 2.559	33.30 1.311	13.5 .531	65.8 2.591	50.8 2.000
25	7/8 15/16 1	SNP25 SNP7/8 SNP15/16 SNP1	SNP25A SNP7/8A SNP15/16A SNP1A	SNP25EC SNP7/8EC SNP15/16EC SNP1EC	SNP25DEC SNP7/8DEC SNP15/16DEC SNP1DEC	1025	3	70.0 2.756	36.50 1.437	13.5 .531	71.5 2.815	50.8 2.000
30	1 1/8 1 1/4 1 1/4	SNP30 SNP1 1/8 SNP1 1/4 SNP1 1/4R	SNP30A SNP1 1/8A SNP1 1/4A SNP1 1/4R	SNP30EC SNP1 1/8EC SNP1 1/4EC SNP1 1/4R EC	SNP30DEC SNP1 1/8DEC SNP1 1/4DEC SNP1 1/4R DEC	1030	4	96.0 3.780	42.90 1.689	16.5 .650	83.9 3.303	76.2 3.000
35	1 1/4 1 3/8 1 7/8	SNP35 SNP1 1/4 SNP1 3/8 SNP1 7/8	SNP35A SNP1 1/4A SNP1 3/8A SNP1 7/8A	SNP35EC SNP1 1/4EC SNP1 3/8EC SNP1 7/8EC	SNP35DEC SNP1 1/4DEC SNP1 3/8 DEC SNP1 7/8DEC	1035	5	110.0 4.331	47.60 1.874	19.5 .768	95.6 3.764	82.6 3.252
40	1 1/2	SNP40 SNP1 1/2	SNP40A SNP1 1/2A	SNP40EC SNP1 1/2EC	SNP40DEC SNP1 1/2DEC	1040	6	118.0 4.646	49.20 1.937	19.5 .768	101.7 4.004	88.9 3.500
45	1 5/8 1 11/16 1 3/4	SNP45 SNP1 5/8 SNP1 11/16 SNP1 3/4	SNP45A SNP1 5/8A SNP1 11/16A SNP1 3/4A	SNP45EC SNP1 5/8EC SNP1 11/16EC SNP1 3/4EC	SNP45DEC SNP1 5/8DEC SNP1 11/16DEC SNP1 3/4DEC	1045	7	127.0 5.000	54.00 2.126	19.5 .768	110.0 4.331	95.3 3.752
50	1 7/8 1 13/16 2	SNP50 SNP1 7/8 SNP1 13/16 SNP2R	SNP50A SNP1 7/8A SNP1 13/16A	SNP50EC SNP1 7/8EC SNP1 13/16EC	SNP50DEC SNP1 7/8DEC SNP1 13/16DEC	1050	8	135.0 5.315	57.2 2.252	23.5 .925	115.0 4.528	101.6 4.000
55	2 2 1/8 2 1/4 2 3/8	SNP55 SNP2 SNP2 1/8 SNP2 3/8	SNP55A SNP2A SNP2 1/8A SNP2 3/8A	SNP55EC SNP2EC SNP2 1/8EC SNP2 3/8EC	SNP55DEC SNP2DEC SNP2 1/8DEC SNP2 3/8DEC	1055	9	154.0 6.063	63.50 2.500	26.5 1.043	130.0 5.118	118.0 4.646
60	2 1/4 2 3/8 2 7/8	SNP60 SNP2 1/4 SNP2 3/8 SNP2 7/8	SNP60A SNP2 1/4A SNP2 3/8A SNP2 7/8A	SNP60EC SNP2 1/4EC SNP2 3/8EC SNP2 7/8EC	SNP60DEC SNP2 1/4DEC SNP2 3/8DEC SNP2 7/8DEC	1060	10	154.0 6.063	69.90 2.752	26.5 1.043	141.5 5.571	118.0 4.646

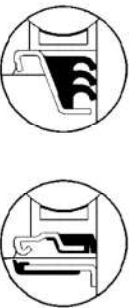
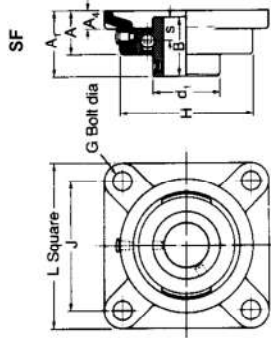


Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. SNP25FS.

Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSNP25.

SNP	P	CNP	A	A ₁	B	B ₁	B ₂	B ₃	s	s ₁	s ₂	d ₁	d ₂	ISO load ratings		Rec. max. speed	Mass (approx.)
														C _r	C _{0r}		
mm																	
inches																	
M8x1.25		5/16-16UNC	32.0	22.5	30.96	25.77	30.92	43.62	12.75	7.56	17.12	28.50	33.30	12800	6580	6,700	0.9
			1.260	.886	1.219	1.015	1.217	1.717	.502	.298	.674	1.122	1.311	2880	1480	2.0	
MTDx1.50		3/8-16UNC	36.0	25.0	34.11	27.35	30.92	44.40	14.32	7.57	17.49	34.01	38.10	14000	7880	6250	1.2
			1.417	.984	1.343	1.077	1.217	1.748	.564	.298	.689	1.339	1.500	3150	1770	2.6	
MTDx1.50		7/16-14UNC	40.0	26.5	38.10	31.21	35.68	48.42	15.93	9.04	18.32	40.00	44.45	19500	11300	5300	1.8
			1.575	1.043	1.500	1.229	1.405	1.906	.627	.356	.721	1.575	1.750	4380	2540	4.0	
MTDx1.50		1/2-13UNC	45.0	30.0	42.88	34.90	38.88	51.18	17.53	9.55	18.89	46.69	55.58	25700	15300	4500	2.4
			1.772	1.181	1.688	1.374	1.531	2.015	.690	.376	.744	1.838	2.188	5780	3440	5.3	
MT2x1.75		1/2-13UNC	47.0	32.0	49.23	41.18	43.64	56.34	19.10	11.05	21.46	52.70	60.30	29100	17900	4000	2.8
			1.850	1.260	1.938	1.621	1.718	2.218	.752	.435	.845	2.075	2.374	6540	4020	6.2	
MT2x1.75		1/2-13UNC	48.0	33.0	49.23	41.18	43.64	56.34	19.10	11.05	21.46	57.30	63.50	32500	20500	3700	3.5
			1.890	1.299	1.938	1.621	1.718	2.218	.752	.435	.845	2.256	2.500	7310	4610	7.8	
MT6x2.0		5/8-11UNC	54.0	34.0	51.59	43.54	43.64	62.70	19.10	11.05	24.65	62.20	69.85	35000	23200	3400	3.3
			2.126	1.339	2.031	1.714	1.718	2.469	.752	.435	.970	2.449	2.750	7870	5220	7.3	
MT6x2.00		5/8-11UNC	60.0	41.5	55.55	-	-	71.44	22.28	-	27.82	68.81	76.20	43500	29200	3100	4.0
			2.362	1.639	2.187	-	-	2.813	.877	-	1.095	2.709	3.000	9780	6550	8.8	
MT6x2.00		5/8-11UNC	60.0	41.5	65.07	-	-	77.82	25.45	-	31.02	75.34	84.12	52500	35900	2800	4.6
			2.362	1.639	2.562	-	-	3.064	1.002	-	1.221	2.966	3.312	11800	8070	10.1	

SF SERIES



Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. SF17/FS.

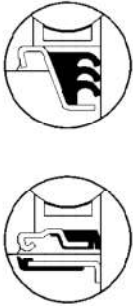
Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSF17/8.

Shaft diameter	RHP designation	Basic bearing insert	Casting Dimensions						
			L	H	J	G	A	A1	
mm	inches		mm	inches					
12	SF12	SF12DEC	76.2	52.50	54.00	10	24.6	32.87	
15	SF15	SF15DEC	3.000	2.067	2.126	3/16	.969	1.294	
16	SF16	SF16DEC							
17	SF17	SF17DEC							
	SF17/2	SF17/2DEC							
	SF5/8	SF5/8DEC							
20	SF20	SF20DEC	85.7	60.3	63.5	10	27.8	37.26	
	SF14	SF14DEC	3.374	2.374	2.500	3/8	1.094	1.467	
25	SF25	SF25DEC	95.3	68.0	70.00	10	28.6	38.84	
	SF7/8	SF7/8DEC	3.752	2.677	2.756	7/16	1.126	1.529	
	SF15/16	SF15/16DEC							
30	SF30	SF30DEC	108.0	82.6	82.50	10	29.8	42.21	
	SF30A	SF30ADEC	4.252	3.252	3.248	7/16	1.173	1.662	
	SF11/8	SF11/8DEC							
	SF13/16	SF13/16DEC							
	SF11/4R	SF11/4RDEC							
35	SF35	SF35DEC	117.5	95.3	92.00	12	31.4	46.41	
	SF13/4	SF13/4DEC	4.626	3.752	3.622	1/2	1.236	1.827	
	SF13/8	SF13/8DEC							
	SF17/8	SF17/8DEC							
40	SF40	SF40DEC	130.2	101.6	101.50	12	34.9	54.18	
	SF11/2	SF11/2DEC	5.126	4.000	3.996	1/2	1.374	2.133	
45	SF45	SF45DEC	136.5	111.1	105.00	16	35.3	54.18	
	SF11/8	SF11/8DEC	5.374	4.374	4.134	5/8	1.390	2.133	
	SF11/4	SF11/4DEC							
50	SF50	SF50DEC	142.9	115.9	111.00	16	39.7	60.53	
	SF11/8	SF11/8DEC	5.626	4.563	4.370	5/8	1.563	2.383	
	SF15/16	SF15/16DEC							
	SF2R	SF2RDEC							
55	SF55	SF55DEC	161.9	127.0	130.00	16	43.7	64.31	
	SF21/8	SF21/8DEC	6.374	5.000	5.118	5/8	1.720	2.532	
	SF21/4	SF21/4DEC							
60	SF60	SF60DEC	174.5	138.1	143.00	16	47.6	73.69	
	SF23/8	SF23/8DEC	6.870	5.437	5.630	5/8	1.874	2.901	
	SF21/2	SF21/2DEC							
65	SF65	SF65DEC	174.5	149.5	143.00	16	47.6	73.69	
	SF21/4	SF21/4DEC	6.870	5.886	5.630	5/8	1.874	2.901	
	SF21/8	SF21/8DEC							
70	SF70	SF70DEC	187.5	155.5	149.22	16	47.6	77.72	
	SF25/8	SF25/8DEC	7.382	6.122	5.875	5/8	1.874	3.060	
	SF21/16	SF21/16DEC							
	SF21/8	SF21/8DEC							
75	SF75	SF75DEC	196.5	158.5	152.40	20	51.3	80.90	
	SF23/4	SF23/4DEC	7.736	6.240	6.000	3/4	2.020	3.185	
	SF21/4	SF21/4DEC							
	SF21/16	SF21/16DEC							
	SF3	SF3DEC							

Please check availability

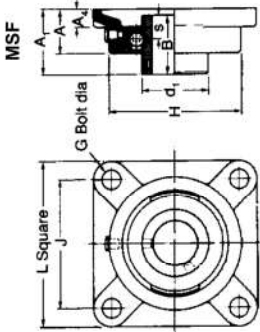
A2	A3	A4	B	B1	B2	B3	S	S1	S2	d1	d2	ISO load ratings		Rec. max. speed	Mass (approx.)
												Cr	Cor		
mm	inches											newtons lbf	newtons lbf	rev/ min	kg lb
39.01	1.536	9.5	27.38	27.38	28.54	28.54	11.55	6.55	-	24.21	28.58	9550	4160	7000	0.5
		-374	1.078	1.078	1.124	1.124	.455	.238	-	.953	1.125	2150	1070		1.1
42.42	45.54	11.1	30.96	25.77	30.92	43.62	12.75	7.56	17.12	28.50	33.30	12800	6580	6700	0.7
1.670	1.793	.437	1.219	1.015	1.217	1.717	.502	.298	.674	1.122	1.311	2880	1480		1.5
42.42	45.95	11.1	34.11	27.35	30.92	44.40	14.32	7.56	17.49	34.01	38.10	14000	7880	6250	1.0
1.670	1.809	.437	1.343	1.077	1.217	1.748	.564	.298	.689	1.339	1.500	3150	1770		2.3
46.66	50.9	12.7	38.10	31.21	35.68	48.42	15.93	9.04	18.32	40.00	44.45	19500	11300	5300	1.3
1.837	1.972	.500	1.500	1.229	1.405	1.906	.627	.356	.721	1.575	1.750	4380	2540		2.9
50.34	53.31	12.7	42.88	34.90	38.88	51.18	17.53	9.55	18.89	46.69	55.58	25700	15300	4500	1.7
1.982	2.099	.500	1.688	1.374	1.531	2.015	.690	.376	.744	1.838	2.188	5780	3440		3.7
56.62	58.90	12.7	49.23	41.18	43.64	56.34	19.10	11.05	21.46	52.70	60.30	29100	17900	4000	2.2
2.229	2.319	.500	1.938	1.621	1.718	2.218	.752	.435	.845	2.075	2.374	6540	4020		4.9
56.62	58.90	14.3	49.23	41.18	43.64	56.34	19.10	11.05	21.46	57.30	63.50	32500	20500	3700	2.6
2.229	2.319	.563	1.938	1.621	1.718	2.218	.752	.435	.845	2.256	2.500	7310	4610		5.7
60.60	66.07	14.3	51.59	43.54	43.64	62.70	19.10	11.05	24.65	62.20	69.85	35000	23200	3400	2.8
2.386	2.601	.563	2.031	1.714	1.718	2.469	.752	.435	.970	2.449	2.750	7870	5220		6.2
	74.57	17.5	55.55	-	-	71.44	22.28	-	27.82	68.81	76.20	43500	29200	3100	4.0
	2.936	.689	2.187	-	-	2.813	.877	-	1.095	2.709	3.030	9780	6560		8.8
	80.77	17.5	65.07	-	-	77.82	25.45	-	31.02	75.34	84.12	52500	35900	2800	4.7
	3.180	.689	2.562	-	-	3.064	1.002	-	1.221	2.966	3.312	11800	8070		10.3
	80.77	18.0	65.07	-	-	77.82	25.45	-	31.02	82.40	87.33	57500	40000	2600	2.7
	3.180	.709	2.562	-	-	3.064	1.002	-	1.221	3.244	3.438	12930	8990		10.3
	84.86	18.0	74.63	-	-	85.36	30.23	-	34.19	87.00	96.82	62000	44000	2450	6.8
	3.341	.709	2.938	-	-	3.361	1.190	-	1.346	3.425	3.812	13940	9890		15.0
	91.21	23.0	77.77	-	-	91.72	33.37	-	37.37	92.00	101.60	66000	49300	2300	8.6
	3.591	.906	3.062	-	-	3.611	1.314	-	1.471	3.622	4.000	14840	11080		19.0

MSF SERIES



Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'FS' e.g. MSF35FS.

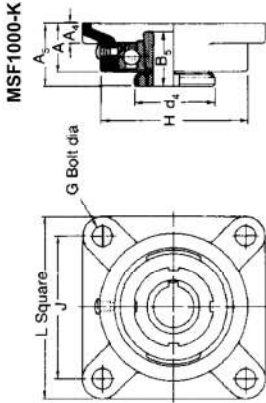
Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TMSF35.



Shaft diameter	RHP designation	Basic bearing insert	Casting group	Dimensions				Basic bearing insert			
				L	H	J	G	A	A1	A4	B
mm	inches			mm	inches						
25											
1	MSF25	1030	1	108.0	82.6	82.50	10	29.8	42.21	12.7	38.10
	MSF1			4.252	3.252	3.248	7/16	1.173	1.662	.500	1.500
30	MSF30	1035	2	117.5	95.3	92.0	12	31.4	46.41	12.7	42.88
1 3/16	MSF1 3/16			4.626	3.752	3.622	1/2	1.236	1.827	.500	1.688
1 1/4	MSF1 1/4										
35	MSF35	1040	3	130.2	101.6	101.50	12	34.9	54.18	12.7	49.23
1 3/8	MSF1 3/8			5.126	4.000	3.996	1/2	1.374	2.133	.500	1.938
1 7/16	MSF1 7/16										
40	MSF40	1045	4	136.5	111.1	105.00	16	35.3	54.18	14.3	49.23
1 1/2	MSF1 1/2			5.374	4.374	4.134	5/8	1.390	2.133	.563	1.938
45	MSF45	1050	5	142.9	115.9	111.00	16	39.7	60.53	14.3	51.59
1 11/16	MSF1 11/16			5.626	4.563	4.370	5/8	1.563	2.383	.563	2.031
1 3/4	MSF1 3/4										
50	MSF50	1055	6	161.9	127.0	130.00	16	43.7	64.31	17.5	55.55
1 7/8	MSF1 7/8			6.374	5.000	5.118	5/8	1.720	2.532	.689	2.187
1 15/16	MSF1 15/16										
2	MSF2										
55	MSF55	1060	7	174.5	138.1	143.00	16	47.6	73.69	17.5	65.07
2 1/8	MSF2 1/8			6.870	5.437	5.630	5/8	1.874	2.901	.689	2.562
2 1/4	MSF2 1/4										
60	MSF60	1070	8	187.55	155.5	149.22	16	47.6	77.2	18.0	74.63
2 3/8	MSF2 3/8			7.382	6.122	5.875	5/8	1.874	3.060	.709	2.938
2 1/2	MSF2 1/2										
65	MSF65	1075	9	196.5	158.5	152.40	20	51.3	80.90	23.0	77.77
2 5/8	MSF2 5/8			7.736	6.240	6.000	3/4	2.020	3.185	.960	3.062
70	MSF70										
2 11/16	MSF2 11/16										
2 3/4	MSF2 3/4										
75	MSF75	1080	10	196.5	173.5	152.40	20	55.0	88.87	23.0	82.55
2 15/16	MSF2 15/16			7.736	6.831	6.000	3/4	2.165	3.499	.960	3.250
3	MSF3										
80	MSF80	1085	11	213.5	184.0	171.45	20	54.3	89.64	26.0	85.72
3 1/8	MSF3 1/8			8.406	7.244	6.750	3/4	2.138	3.529	1.024	3.375
3 1/4	MSF3 1/4										
85	MSF85	1090	12	381.0	101.60	171.45	20	61.7	100.76	26	96.04
3 3/8	MSF3 3/8			8.406	7.736	6.750	3/4	2.429	3.967	1.024	3.781
3 1/2	MSF3 1/2										
90	MSF90										
3 7/8	MSF3 7/8										
95	MSF95	3095	13	267.5	235.5	211.12	24	83.5	126.95	32.0	117.48
100	MSF100			10.531	9.272	8.312	1	3.287	4.998	1.260	4.625
3 15/16	MSF3 15/16										
4	MSF4										

Please check availability

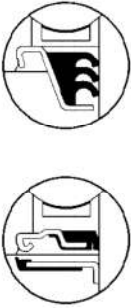
MSF1000-K SERIES



Shaft diameter	RHP designation		Basic bearing group insert	Casting group		Dimensions							
	complete unit	sleeve, nut & lockwasher assembly only				L	H	J	G	A	A ₁	A ₂	
mm	inches					mm	mm	inches					
20	3/4	MSF1025-20K MSF1025-3/4K	H305 HE3051/4	1025	SF3	95.3 3.752	68.0 2.677	70.0 2.756	10 7/16	28.6 1.126	11.1 .437		
25	1 1/16 1 3/16	MSF1030-25K MSF1030-5/16K MSF1030-1K	H306 HE306-5/16 HE306-1	1030	1	108.0 4.252	82.6 3.252	82.50 3.248	10 7/16	29.8 1.173	12.7 .500		
30	1 1/8 1 3/8	MSF1035-30K MSF1035-1/2K MSF1035-1/2K MSF1035-1/2K	H307 HE307-1/2 HE307-1/2 HE307-1/2	1035	2	117.5 4.626	95.3 3.752	92.00 3.622	12 1/2	31.4 1.236	12.7 .500		
35	1 1/4 1 3/4	MSF1040-35K MSF1040-1/2K MSF1040-1/2K MSF1040-1/2K	H308 HE308-1/2 HE308-1/2 HE308-1/2	1040	3	130.2 5.126	101.6 4.000	101.50 3.996	12 1/2	34.9 1.374	12.7 .500		
40	1 7/16 1 1/2	MSF1045-40K MSF1045-1/2K MSF1045-1/2K	H309 HE309-1/2 HE309-1/2	1045	4	136.5 5.374	111.1 4.374	105.00 4.134	16 5/8	35.3 1.390	14.3 .563		
45	1 7/8 1 3/4	MSF1050-45K MSF1050-1/2K MSF1050-1/2K MSF1050-1/2K	H310 HE310-1/2 HE310-1/2 HE310-1/2	1050	5	142.9 5.626	115.9 4.563	111.00 4.370	16 5/8	39.7 1.563	14.3 .563		
50	1 15/16 2	MSF1055-50K MSF1055-1/2K MSF1055-1/2K MSF1055-1/2K	H311 HE311-1/2 HE311-1/2 HE311-1/2	1055	6	161.9 6.374	127.00 5.000	130.00 5.118	16 5/8	43.7 1.720	17.5 .689		

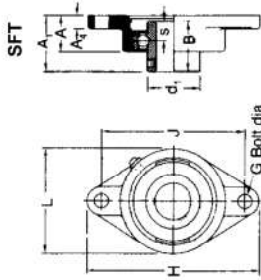
A _s	B _s	d ₄	ISO load ratings		Rec. max. speed	Mass max. (approx.)
			dynamic C _r	static C _{0r}		
mm inches			newtons lbf	newtons lbf	rev/ min	kg lb
36.5 1.437	29.0 1.142	38.0 1.496	14000 3150	7880 1770	6250	1.0 2.3
38.0 1.496	31.0 1.220	45.0 1.772	19500 4380	11300 2540	5300	1.3 2.9
40.5 1.594	35.0 1.378	52.0 2.047	25700 5780	15300 3440	4500	1.7 3.7
45.0 1.772	36.0 1.417	58.0 2.283	29100 6540	17900 4020	4000	2.2 4.9
46.5 1.831	39.0 1.535	65.0 2.559	32500 7310	20500 4610	3700	2.6 5.7
52.0 2.047	42.0 1.654	70.0 2.756	35000 7870	23200 5220	3400	2.8 6.2
55.5 2.185	45.0 1.772	75.0 2.953	43500 9780	29200 6560	3100	4.0 8.8

SFT SERIES (ISO)



Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. SFT11FS.

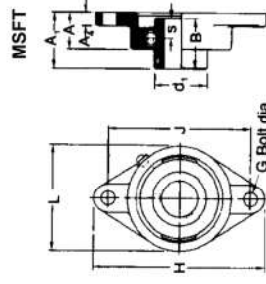
Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSFT1



Shaft diameter	RHP designation	Basic bearing insert	Dimensions					Casting group	Dimensions				
			L	H	J	G	A		A1	A	A1	A	A1
mm	inches		mm						inches				
12	SFT12	SFT12EC	52.5	98.5	76.50	10	24.6	1	32.87				
15	SFT15	SFT15EC	2.067	3.878	3.012	3/8	.969		1.294				
16	SFT16	SFT16EC											
17	SFT17	SFT17EC											
1/2	SFT1/2	SFT1/2EC											
5/8	SFT5/8	SFT5/8EC											
20	SFT20	SFT20EC	60.3	111.9	90.00	10	27.8	2	37.26				
3/4	SFT3/4	SFT3/4EC	2.374	4.406	3.543	3/8	1.094		1.467				
25	SFT25	SFT25EC	70.0	125.5	99.00	10	28.6	3	38.84				
7/8	SFT7/8	SFT7/8EC	2.756	4.941	3.898	7/8	1.126		1.529				
15/16	SFT15/16	SFT15/16EC											
1	SFT1	SFT1EC											
30	SFT30	SFT30EC	82.6	141.3	116.50	10	29.8	4	42.21				
1 1/8	SFT1 1/8	SFT1 1/8EC	3.252	5.563	4.687	7/8	1.173		1.662				
1 3/8	SFT1 3/8	SFT1 3/8EC											
1 1/4	SFT1 1/4	SFT1 1/4EC											
35	SFT35	SFT35EC	95.5	155.5	130.00	12	31.4	5	46.41				
1 1/4	SFT1 1/4	SFT1 1/4EC	3.760	6.122	5.118	1/2	1.236		1.827				
1 3/8	SFT1 3/8	SFT1 3/8EC											
1 1/2	SFT1 1/2	SFT1 1/2EC											
40	SFT40	SFT40EC	101.6	171.4	143.50	12	34.9	6	54.18				
1 1/2	SFT1 1/2	SFT1 1/2EC	4.000	6.748	5.650	1/2	1.374		2.133				
45	SFT45	SFT45EC	111.1	179.4	148.50	16	35.3	7	54.18				
1 5/8	SFT1 5/8	SFT1 5/8EC	4.374	7.063	5.846	5/8	1.390		2.133				
1 7/8	SFT1 7/8	SFT1 7/8EC											
1 3/4	SFT1 3/4	SFT1 3/4EC											
50	SFT50	SFT50EC	115.9	188.9	157.00	16	39.7	8	60.53				
1 7/8	SFT1 7/8	SFT1 7/8EC	4.563	7.437	6.181	5/8	1.563		2.283				
1 5/8	SFT1 5/8	SFT1 5/8EC											
2	SFT2R	SFT2R											
55	SFT55	SFT55DEC	127.0	215.9	184.00	16	43.7	9	64.31				
2 1/8	SFT2 1/8	SFT2 1/8EC	5.000	8.500	7.244	5/8	1.720		2.532				
2 3/8	SFT2 3/8	SFT2 3/8EC											
2 1/2	SFT2 1/2	SFT2 1/2EC											
60	SFT60	SFT60DEC	138.1	235.0	202.00	16	47.6	10	73.69				
2 1/4	SFT2 1/4	SFT2 1/4EC	5.437	9.252	7.953	5/8	1.874		2.901				
2 3/8	SFT2 3/8	SFT2 3/8EC											
2 1/2	SFT2 1/2	SFT2 1/2EC											

Please check availability

MSFT SERIES



Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'FS' e.g. MSFT11/2FS.

Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TMSFT11/2.

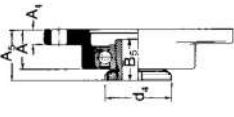
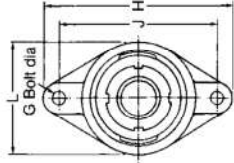
Shaft diameter		RHP designation		Basic bearing insert	Casting group	Dimensions				A	A ₁	A ₄	B
mm	Inches	L	H			J	G	A	A ₁				
25		MSFT25 MSFT1	82.6 3.252	141.3 5.563	116.50 4.587	10 7/16	29.8 1.173	42.21 1.662	12.7 -500	38.10 1.500			
30	1 3/16 1 1/4	MSFT30 MSFT19/16 MSFT11/4	95.5 3.760	155.5 6.122	130.00 5.118	12 1/2	31.4 1.236	46.41 1.827	12.7 -500	42.88 1.688			
35	1 3/8 1 1/16	MSFT35 MSFT19/8 MSFT7/16	101.6 4.000	171.4 6.748	143.50 5.650	12 1/2	34.9 1.374	54.18 2.133	12.7 -500	49.23 1.938			
40	1 1/2	MSFT40 MSFT11/2	111.1 4.374	179.4 7.063	148.50 5.846	16 5/8	35.3 1.390	54.18 2.133	14.3 -563	49.23 1.938			
45	1 11/16 1 3/4	MSFT45 MSFT11/16 MSFT9/4	115.9 4.563	188.9 7.437	157.00 6.181	16 5/8	39.7 1.563	60.53 2.383	14.3 -563	51.59 2.031			
50	1 7/8 1 5/16 2	MSFT50 MSFT7/8 MSFT15/16 MSFT2	127.0 5.000	215.9 8.500	184.00 7.244	16 5/8	43.7 1.720	64.31 2.532	17.5 -689	55.55 2.187			
55	2 1/16	MSFT55 MSFT29/16	138.1 5.437	235.0 9.252	202.00 7.953	16 5/8	47.6 1.874	73.69 2.901	17.5 -689	65.07 2.562			

Please check availability

s	d _i	ISO load ratings			Rec. max. speed	Mass (approx.)	
		C _t	dynamic newtons lbf	static C _{er} newtons lbf		rev/min	kg lb
	15.93	40.00	19500	11300	5300	1.1	
	-6.27	1.575	4380	2540		2.5	
	17.53	46.69	25700	15300	4500	1.4	
	-6.90	1.838	5780	3440		3.0	
	19.10	52.70	29100	17900	4000	1.9	
	-7.52	2.075	6540	4020		4.1	
	19.10	57.30	32500	20500	3700	2.2	
	-7.52	2.256	7310	4610		4.9	
	19.10	62.20	35000	23200	3400	2.5	
	-7.52	2.449	7870	5220		5.4	
	22.28	68.81	43500	29200	3100	3.5	
	-8.77	2.709	9780	6560		7.8	
	25.45	75.34	52500	35900	2800	4.3	
	-10.02	2.966	11800	8070		9.5	

MSFT1000-K SERIES

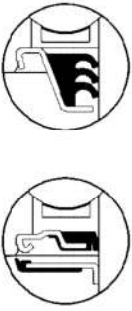
MSFT1000-K



Shaft diameter	RHP designation complete unit		sleeve, nut & lockwasher assembly only	unit without sleeve, nut & lockwasher	Basic bearing insert	Casting group	Dimensions							
	mm	inches					L	H	J	G	A	A ₄		
	mm	inches					mm inches							
20	3/4	MSFT1025-20K	H305	MSFT1025K	1025	SFT3	68.3	123.8	99.0	10	28.6	11.1		
		MSFT1025-3/4K	HE305 ^{5/16}				2.689	4.874	3.998	7/16	1.126	.437		
25	13/16 1	MSFT1030-25K	H306	MSFT1030K	1030	1	82.6	141.3	115.50	10	29.8	12.7		
		MSFT1030-5/16K	HE306-5/16				3.252	5.563	4.587	7/16	1.173	.500		
30	1 1/8 1 3/16	MSFT1030-1K	HE306-1	MSFT1035K	1035	2	95.5	155.5	130.00	12	31.4	12.7		
		MSFT1035-30K	H307				3.760	6.122	5.118	1/2	1.236	.500		
35	1 1/4 1 5/8	MSFT1035-1/8K	HE307-1/8	MSFT1040K	1040	3	101.6	171.4	143.50	12	34.9	12.7		
		MSFT1040-35K	H308				4.000	6.748	5.650	1/2	1.374	.500		
40	1 7/16 1 1/2	MSFT1040-1/4K	HE308-1/4	MSFT1045K	1045	4	111.1	179.4	148.50	16	35.3	14.3		
		MSFT1040-3/8K	HE308-3/8				4.374	7.063	5.846	5/8	1.390	.563		
45	1 7/8 1 3/4	MSFT1045-40K	H309	MSFT1050K	1050	5	115.9	188.9	157.00	16	39.7	14.3		
		MSFT1045-1/2K	HE309-1/2				4.563	7.437	6.181	5/8	1.563	.563		
50	1 7/8 2	MSFT1050-45K	H310	MSFT1055K	1055	6	127.0	215.9	184.00	16	43.7	17.5		
		MSFT1050-1 1/8K	HE310-1 1/8				5.000	8.500	7.244	5/8	1.720	.689		
		MSFT1050-3/4K	HE310-3/4											
		MSFT1055-50K	H311											
		MSFT1055-1 1/8K	HE311-1 1/8											
		MSFT1055-2K	HE311-2											

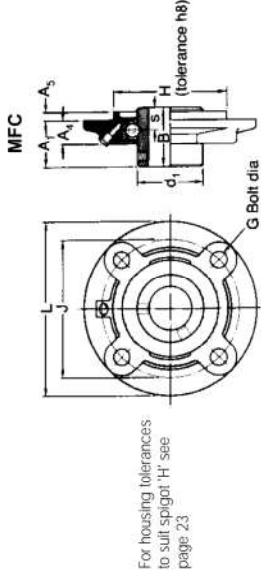
A _s	B _s	d ₄	ISO load ratings		Rec. max. speed	Mass max. (approx.)
			dynamic C _r	static C _{0r}		
mm	mm	mm	newtons	newtons	rev/min	kg
inches	inches	inches	lbf	lbf		lb
36.5	29.0	39.0	14000	7880	6250	0.9
1.437	1.142	1.496	3150	1770		2.0
38.0	31.0	45.0	19500	11300	5300	1.1
1.496	1.220	1.772	4380	2540		2.5
40.5	35.0	52.0	25700	15300	4500	1.4
1.594	1.378	2.047	5780	3440		3.0
45.0	36.0	58.0	29100	17900	4000	1.9
1.772	1.417	2.283	6540	4020		4.1
46.5	39.0	65.0	32500	20500	3700	2.2
1.831	1.535	2.559	7310	4610		4.9
52.0	42.0	70.0	35000	23200	3400	2.5
2.047	1.654	2.756	7870	5220		5.4
55.5	45.0	75.0	43500	29200	3100	3.5
2.185	1.772	2.953	9780	6560		7.8

MFC SERIES



Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'FS' e.g. MFC30FS.

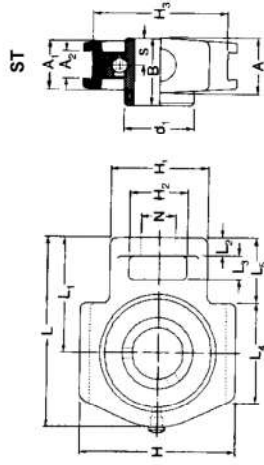
Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TMFC30.



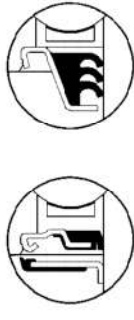
Shaft diameter	RHP designation	Basic bearing insert	Casting group	Dimensions	A1	A4	A5	B
mm	inches			L H J G				
				mm inches				
25	MFC25	1030	1	111.1 76.20 92.08 8	33.32	21.0	6.4	38.10
1 1/4	MFC1			4.374 3.000 3.625 9/16	1.312	.827	.252	1.500
30	MFC30	1035	2	127.0 85.72 104.78 10	33.32	19.0	6.4	42.88
1 3/16	MFC13/16			5.000 3.375 4.125 3/8	1.312	.748	.252	1.688
1 1/4	MFC11/4							
35	MFC35	1040	3	133.4 92.07 111.12 10	38.10	19.0	6.4	49.23
40	MFC40			5.252 3.625 4.375 9/16	1.500	.748	.252	1.938
1 3/16	MFC13/16							
1 1/2	MFC11/2							
45	MFC45	1050	4	155.6 107.95 130.18 10	39.67	19.0	6.4	51.59
1 11/16	MFC111/16			6.126 4.250 5.125 7/16	1.562	.748	.252	2.031
1 3/4	MFC13/4							
2	MFC2R							
50	MFC50	1055	5	161.9 114.30 136.52 10	36.97	19.0	6.4	55.55
1 7/8	MFC17/8			6.374 4.500 5.375 7/16	1.562	.748	.252	2.187
1 5/16	MFC15/16							
2	MFC2							
55	MFC55	1060	6	181.0 127.00 152.40 12	42.85	15.9	9.5	65.07
2 3/16	MFC23/16			7.126 5.000 6.000 1/2	1.687	.626	.374	2.562
2 1/4	MFC21/4							
60	MFC60	1070	7	193.7 139.70 165.10 12	46.02	15.9	12.7	74.63
65	MFC65R			7.626 5.500 6.500 1/2	1.812	.626	.500	2.938
2 7/16	MFC27/16							
2 1/2	MFC21/2							
65	MFC65	1075	8	222.2 161.92 190.50 16	50.80	21.0	12.7	77.77
70	MFC70			8.748 6.375 7.500 9/8	2.000	.827	.500	3.062
2 11/16	MFC211/16							
2 3/4	MFC23/4							
75	MFC75	1080	9	222.2 161.92 190.50 16	50.80	16.7	12.7	82.55
80	MFC80			8.748 6.375 7.500 9/8	2.000	.657	.500	3.250
2 5/16	MFC25/16							
3	MFC3							
3 1/4	MFC31/4							
85	MFC85	1090	10	260.4 187.32 219.08 20	67.46	29.4	12.7	96.04
90	MFC90			10.252 7.375 8.625 3/4	2.656	1.157	.500	3.781
3 7/16	MFC37/16							
3 1/2	MFC31/2							
95	MFC95	3095	11	298.4 228.60 260.35 20	88.90	46.0	12.7	117.48
100	MFC100			11.748 9.000 10.250 3/4	3.500	1.811	.500	4.625
3 5/16	MFC35/16							
4	MFC4							

Please check availability

ST SERIES (ISO)

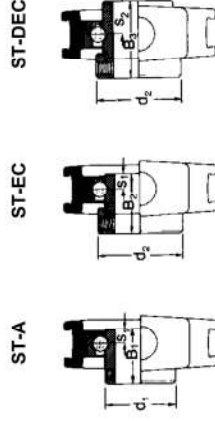


RHP bearings



Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. ST45FS.

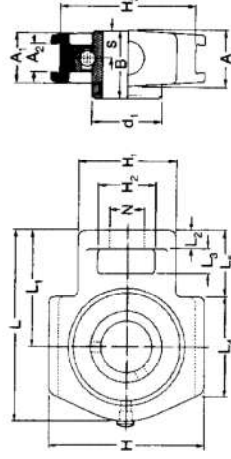
Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TST45.



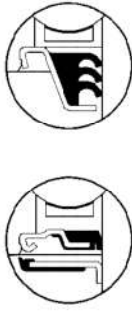
Shaft diameter	RHP designation		Basic bearing group	Casting Dimensions											
	Insert			L	L ₁	L ₂	L ₃	L ₄	L ₅	H	H ₁				
mm	inches			mm											
inches				inches											
20	3/4	ST20	ST20A	ST20EC	ST20DEC	1020	2	96.5	62.0	11.5	16.0	50.5	36.5	88.5	58.5
		ST1/4	ST1/4EC	ST1/4DEC	ST1/4DEC										
		ST25	ST25A	ST25EC	ST25DEC										
		ST1/8	ST1/8EC	ST1/8DEC	ST1/8DEC										
25	7/8	ST15/16	ST15/16A	ST15/16EC	ST15/16DEC	1025	3	98.0	62.0	11.5	16.0	50.5	36.5	88.5	58.5
		ST1	ST1A	ST1EC	ST1DEC										
		ST30	ST30A	ST30EC	ST30DEC										
		ST1/8	ST1/8A	ST1/8EC	ST1/8DEC										
30	1 1/8	ST13/16	ST13/16A	ST13/16EC	ST13/16DEC	1030	4	115.5	71.7	12.5	16.5	64.5	43.0	101.5	64.5
		ST11/4R	ST11/4AR	ST11/4REC	ST11/4DEC										
		ST35	ST35A	ST35EC	ST35DEC										
		ST11/4	ST11/4A	ST11/4EC	ST11/4DEC										
35	1 1/4	ST13/8	ST13/8A	ST13/8EC	ST13/8DEC	1035	5	124.0	75.5	12.5	16.5	64.5	43.0	101.5	64.5
		ST17/16	ST17/16A	ST17/16EC	ST17/16DEC										
		ST40	ST40A	ST40EC	ST40DEC										
		ST11/2	ST11/2A	ST11/2EC	ST11/2DEC										
40	1 1/2	ST45	ST45A	ST45EC	ST45DEC	1040	6	143.5	89.2	15.5	20.5	81.5	50.5	118.0	82.5
		ST19/16	ST19/16A	ST19/16EC	ST19/16DEC										
		ST13/4	ST13/4A	ST13/4EC	ST13/4DEC										
		ST50	ST50A	ST50EC	ST50DEC										
45	1 5/8	ST11/8	ST11/8A	ST11/8EC	ST11/8DEC	1045	7	147.0	89.2	15.5	20.5	81.5	50.5	118.0	82.5
		ST13/8	ST13/8A	ST13/8EC	ST13/8DEC										
		ST15/8	ST15/8A	ST15/8EC	ST15/8DEC										
		ST17/8	ST17/8A	ST17/8EC	ST17/8DEC										
50	1 7/8	ST11/8	ST11/8A	ST11/8EC	ST11/8DEC	1050	8	151.0	90.5	15.5	20.5	81.5	50.5	118.0	82.5
		ST13/8	ST13/8A	ST13/8EC	ST13/8DEC										
		ST15/8	ST15/8A	ST15/8EC	ST15/8DEC										
		ST17/8	ST17/8A	ST17/8EC	ST17/8DEC										
55	2	ST19/16	ST19/16A	ST19/16EC	ST19/16DEC	1055	9	182.0	114.0	19.0	32.0	97.5	70.0	146.0	101.0
		ST2R	ST2R	ST2R	ST2R										
		ST65	ST65A	ST65EC	ST65DEC										
		ST21/8	ST21/8A	ST21/8EC	ST21/8DEC										
60	2 1/8	ST21/8	ST21/8A	ST21/8EC	ST21/8DEC	1060	10	192.0	119.0	19.0	32.0	97.5	70.0	146.0	101.0
		ST60	ST60A	ST60EC	ST60DEC										
		ST21/4	ST21/4A	ST21/4EC	ST21/4DEC										
		ST21/4R	ST21/4AR	ST21/4REC	ST21/4DEC										
65	2 1/4	ST21/4	ST21/4A	ST21/4EC	ST21/4DEC	1070	11	222.5	137.5	21.5	32.0	120.5	77.0	166.5	113.0
		ST65	ST65A	ST65EC	ST65DEC										
		ST21/4R	ST21/4AR	ST21/4REC	ST21/4DEC										
		ST21/4R	ST21/4AR	ST21/4REC	ST21/4DEC										
70	2 1/2	ST21/4	ST21/4A	ST21/4EC	ST21/4DEC	1075	12	222.5	137.5	21.5	32.0	120.5	77.0	166.5	113.0
		ST65	ST65A	ST65EC	ST65DEC										
		ST21/4R	ST21/4AR	ST21/4REC	ST21/4DEC										
		ST21/4R	ST21/4AR	ST21/4REC	ST21/4DEC										
75	2 3/4	ST21/4	ST21/4A	ST21/4EC	ST21/4DEC	1080	13	231.5	139.5	20.5	32.0	125.0	74.0	184.0	113.0
		ST65	ST65A	ST65EC	ST65DEC										
		ST21/4R	ST21/4AR	ST21/4REC	ST21/4DEC										
		ST21/4R	ST21/4AR	ST21/4REC	ST21/4DEC										
80	3	ST21/4	ST21/4A	ST21/4EC	ST21/4DEC	1085	14	260.5	162.0	28.5	38.0	140.0	90.5	198.5	124.0
		ST65	ST65A	ST65EC	ST65DEC										
		ST21/4R	ST21/4AR	ST21/4REC	ST21/4DEC										
		ST21/4R	ST21/4AR	ST21/4REC	ST21/4DEC										
85	3 1/4	ST21/4	ST21/4A	ST21/4EC	ST21/4DEC	1090	15	270.5	171.0	29.5	40.0	150.0	95.5	208.5	129.0
		ST65	ST65A	ST65EC	ST65DEC										
		ST21/4R	ST21/4AR	ST21/4REC	ST21/4DEC										
		ST21/4R	ST21/4AR	ST21/4REC	ST21/4DEC										

Please check availability

MST SERIES



MST SERIES



Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. MST35FS.

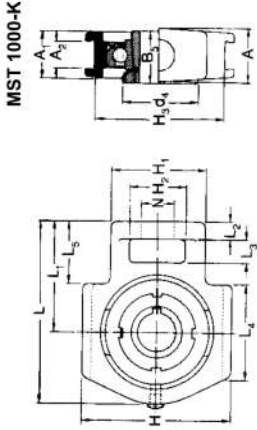
Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TMST35.

[illegible]

** For these bore sizes select from ST series (see page 56)

Please check availability

MST 1000-K SERIES

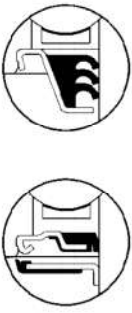
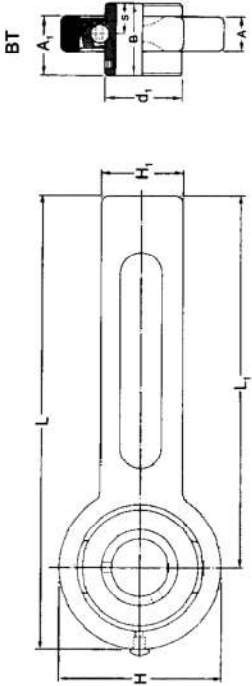


Shaft diameter	RHP designation		Basic bearing insert	Casting group	Dimensions				
	complete unit	sleeve, nut & lockwasher assembly only			L	L ₁	L ₂	L ₃	L ₄ L ₅
mm inches					mm inches				
20 3/4	MST1025-20K	H305	MST1025K	ST3	98.0	62.0	11.5	16.0	50.5 36.5
	MST1025-21K	HE305-21/4			3.858	2.441	.453	.630	1.988 1.437
25 1 1/16 1	MST1030-25K	H306	MST1030K	1	115.5	71.7	12.5	16.5	64.5 43.0
	MST1030-26K	HE306-15/16			4.547	2.823	.492	.650	2.539 1.693
30 1 1/8 1 3/16	MST1035-30K	H307	MST1035K	2	124.0	75.5	12.5	16.5	64.5 43.0
	MST1035-31K	HE307-11/8			4.882	2.972	.492	.650	2.539 1.693
35 1 1/4 1 3/8	MST1040-35K	H308	MST1040K	3	143.5	89.2	15.5	20.5	81.5 50.5
	MST1040-36K	HE308-11/4			5.650	3.512	.610	.807	3.209 1.988
40 1 7/16 1 1/2	MST1045-40K	H309	MST1045K	4	147.0	89.2	15.5	20.5	81.5 50.5
	MST1045-41K	HE309-11/2			5.787	3.512	.610	.807	3.209 1.988
45 1 7/8 1 3/4	MST1050-45K	H310	MST1050K	5	151.0	90.5	15.5	20.5	81.5 50.5
	MST1050-46K	HE310-11/8			5.945	3.563	.610	.807	3.209 1.988
50 1 5/8 2	MST1055-50K	H311	MST1055K	6	182.0	114.0	19.0	32.0	97.5 70.0
	MST1055-51K	HE311-1 1/8			7.165	4.488	.748	1.260	3.839 2.756

Please check availability

H	H ₁	H ₂	H ₃	N	A	A ₁	A ₂	B ₅	d ₄	ISO load ratings		Rec. max. speed	Mass (approx.)
										C _r	C _{or}		
mm inches													
88.5 3.484	58.5 2.303	32.0 1.260	76.0 2.992	22.5 .886	36.0 1.417	27.5 1.083	13.50 .531	29.0 1.142	38.0 1.496	14000	7880	6250	1.0
										3150	1770	2.2	
101.5 3.996	64.5 2.539	37.5 1.476	89.0 3.504	22.5 .886	36.5 1.437	30.0 1.181	13.50 .531	31.0 1.220	45.0 1.772	19500	11300	5300	1.6
										4380	2540	3.5	
101.5 3.996	64.5 2.539	37.5 1.476	89.0 3.504	22.5 .886	36.5 1.437	30.0 1.181	13.50 .531	35.0 1.378	52.0 2.047	25700	15300	4500	1.6
										5780	3440	3.5	
118.0 4.646	82.5 3.248	49.5 1.949	101.0 3.976	29.0 1.142	49.5 1.949	37.0 1.457	17.50 .689	36.0 1.417	58.0 2.283	29100	17900	4000	2.7
										6540	4020	6.0	
118.0 4.646	82.5 3.248	49.5 1.949	101.0 3.976	29.0 1.142	49.5 1.949	37.0 1.457	17.50 .689	39.0 1.535	65.0 2.559	32500	20500	3700	2.8
										7310	4610	6.2	
118.0 4.646	82.5 3.248	49.5 1.949	101.0 3.976	29.0 1.142	49.5 1.949	37.0 1.457	17.50 .689	42.0 1.654	70.0 2.756	35000	23200	3400	2.8
										7870	5220	6.2	
146.0 5.748	101.0 3.976	64.0 2.520	130.0 5.118	35.0 1.378	63.5 2.500	46.5 1.831	27.00 1.063	45.0 1.772	75.0 2.953	43500	29200	3100	4.2
										9780	6560	9.3	

BT SERIES



Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'fS' e.g. BT35fS.

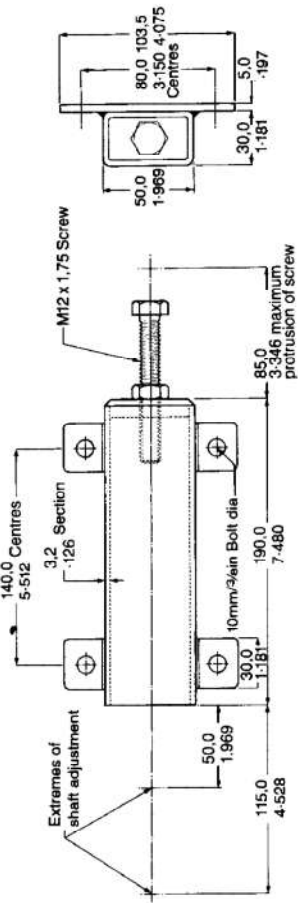
Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TB135.

Shaft diameter	RHP designation	Basic bearing group	Casting Dimensions				
			H	H ₁	L	L ₁	A
25	BT25	BT25EC BT7/8EC BT19/16EC BT1A	78.0	42.5	264.0	225.0	22.0
	BT7/8		3.071	1.673	10.394	8.858	0.866
	BT19/16						1.204
	BT1A						
30	BT30L	BT35EC BT13/16L BT11/8A BT13/8 BT17/16	98.0	42.5	274.0	225.0	22.0
	BT35		3.858	1.673	10.787	8.858	0.866
	BT13/16L						36.13
	BT11/8A						1.422
	BT13/8						
	BT17/16						

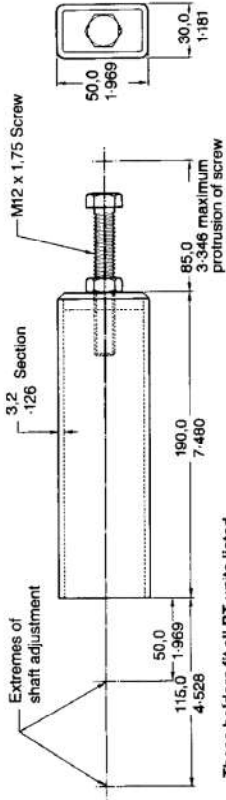
A ₂	B	B ₁	B ₂	S	S ₁	d ₁	d ₂	ISO load ratings		Rec. max. speed	Mass (approx.)	
								dynamic	static		kg	lb
	mm							newtons	newtons	rev/min		
	inches							lbf	lbf			
34.2	34.11	27.35	30.92	14.32	7.56	34.01	38.10	7880	14000	6250	1.8	
1-346	1-343	1-077	1-217	-564	-298	1-339	1-500	1770	3150	4-0	4.0	

40.2	42.88	34.90	38.88	17.53	9.55	46.69	55.58	25700	15300	4500	2.3	
1-583	1-688	1-374	1-531	-690	-376	1-838	2-188	5780	3440	5-0	5.0	

BTHF (with feet) for bolting to the machine frame

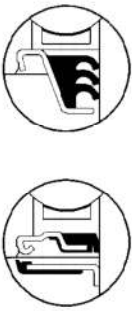


BTH (without feet) for welding to the machine frame

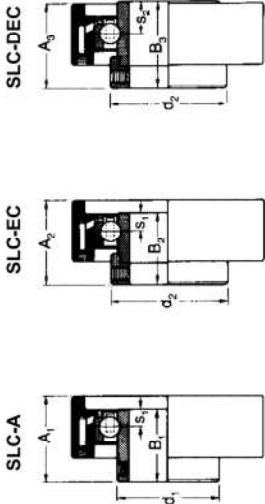
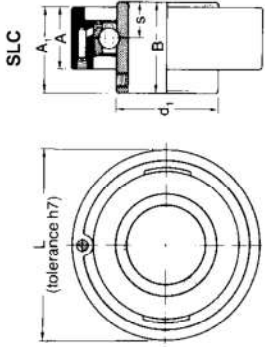


These holders fit all BT units listed

SLC SERIES



For housing tolerances to suit outside dia 'L' see page 23



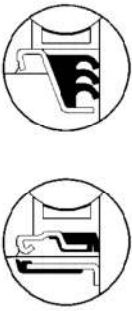
Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. SLC25FS.

Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSLC25.

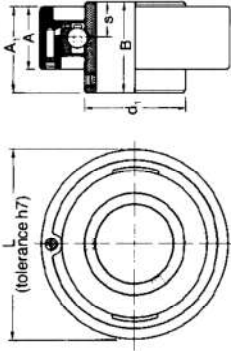
Shaft diameter	RHP designation	Basic bearing insert	Casting Dimensions					ISO load ratings					Rec. max. speed	Mass (approx.)
			L	A	A1	A2	A3	B	C1	C2	C3	newtons lbf	rev/ min	kg lb
mm	inches		mm											
			inches											
12	SLC12	SLC12EC	1017	1	68.287	22.22	24.21	30.35	-	27.38	-	-	-	-
15	SLC15	SLC15EC			2.6885	.875	.953	1.195	-	1.078	-	-	-	-
16	SLC16	SLC16EC												
17	SLC17	SLC17EC												
	SLC17/2	SLC17/2EC												
	SLC17/8	SLC17/8EC												
20	SLC20	SLC20A	1020	2	74.637	22.22	29.39	34.54	37.67	30.96	-	-	-	-
	SLC20/4	SLC20/4A			2.9385	.875	1.157	1.360	1.483	1.219	-	-	-	-
	SLC20/8	SLC20/8A												
25	SLC25	SLC25A	1025	3	79.400	25.19	32.94	36.52	40.06	34.11	-	-	-	-
	SLC25/8	SLC25/8A			3.1260	1.031	1.297	1.438	1.577	1.343	-	-	-	-
	SLC25/16	SLC25/16A												
30	SLC30	SLC30A	1030	4	88.925	27.78	36.12	40.56	43.99	38.10	-	-	-	-
	SLC30/8	SLC30/8A			3.5010	1.094	1.422	1.597	1.732	1.500	-	-	-	-
	SLC30/16	SLC30/16A												
	SLC30/32	SLC30/32A												
35	SLC35	SLC35A	1035	5	98.450	30.96	40.87	44.81	47.78	42.88	-	-	-	-
	SLC35/8	SLC35/8A			3.8760	1.219	1.609	1.764	1.881	1.688	-	-	-	-
	SLC35/16	SLC35/16A												
	SLC35/32	SLC35/32A												
40	SLC40	SLC40A	1040	6	106.387	37.31	48.84	51.28	53.57	49.23	-	-	-	-
	SLC40/8	SLC40/8A			4.1885	1.469	1.923	2.019	2.109	1.938	-	-	-	-
	SLC40/16	SLC40/16A												
45	SLC45	SLC45A	1045	7	111.150	35.51	48.44	50.88	53.16	49.23	-	-	-	-
	SLC45/8	SLC45/8A			4.3760	1.437	1.907	2.003	2.093	1.938	-	-	-	-
	SLC45/16	SLC45/16A												
	SLC45/32	SLC45/32A												
50	SLC50	SLC50A	1050	8	115.913	37.31	51.18	51.28	56.72	51.59	-	-	-	-
	SLC50/8	SLC50/8A			4.5635	1.469	2.015	2.019	2.233	2.031	-	-	-	-
	SLC50/16	SLC50/16A												
	SLC50/32	SLC50/32A												
55	SLC55	SLC55A	1055	9	125.437	40.48	53.57	51.28	63.83	55.55	-	-	-	-
	SLC55/8	SLC55/8A			4.9385	1.594	2.109	2.019	2.513	2.187	-	-	-	-
	SLC55/16	SLC55/16A												
	SLC55/32	SLC55/32A												
60	SLC60	SLC60A	1060	10	149.250	41.28	60.30	51.28	67.39	65.07	-	-	-	-
	SLC60/8	SLC60/8A			5.8760	1.625	2.374	2.019	2.653	2.562	-	-	-	-
	SLC60/16	SLC60/16A												
	SLC60/32	SLC60/32A												
65	SLC65	SLC65A	1065	10/65	149.250	41.28	60.30	51.28	67.39	65.07	-	-	-	-
	SLC65/8	SLC65/8A			5.8760	1.625	2.374	2.019	2.653	2.562	-	-	-	-
	SLC65/16	SLC65/16A												
	SLC65/32	SLC65/32A												

Please check availability

MSC SERIES



For housing tolerances to suit outside dia 'L' see page 23.



Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'FS' e.g. MSC13/16FS.

Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TMSC13/16.

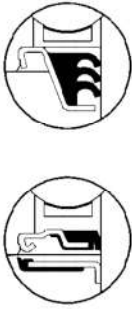
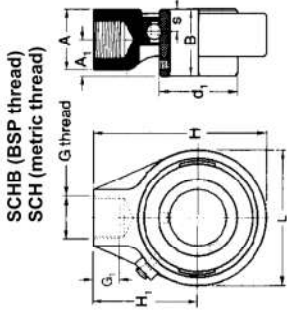
Shaft diameter	RHP designation	Basic insert	Casting bearing	Dimensions group	A	A1	B	s	d1
mm	inches			L	mm	inches			
25	MSC25	1030	1	88.925	27.78	36.12	38.10	15.93	40.00
30	MSC1	1035	2	3.5010	1.094	1.422	1.500	.627	1.575
35	MSC13/16	1040	3	98.450	30.96	40.87	42.88	17.53	46.69
40	MSC17/16	1045	4	3.8760	1.219	1.609	1.688	.690	1.838
45	MSC11/2	1050	5	106.387	37.31	48.84	49.23	19.10	52.70
50	MSC11/16	1055	6	4.1885	1.469	1.923	1.938	.752	2.075
55	MSC13/4	1060	7	111.150	36.51	48.44	49.23	19.10	57.30
60	MSC17/8	1070	8	4.3760	1.437	1.907	1.938	.752	2.256
65	MSC11/8	1075	9	115.913	37.31	51.18	51.59	19.10	62.20
70	MSC13/8	1080	10	4.5635	1.469	2.015	2.031	.752	2.449
75	MSC19/16	1085	11	125.437	40.48	53.57	55.55	22.28	68.81
80	MSC11/4	1090	12	4.9385	1.594	2.109	2.187	.877	2.709
85	MSC21/8	1095	13	149.250	41.28	60.30	65.07	25.45	75.34
90	MSC21/4	1100	14	5.8760	1.625	2.374	2.562	1.002	2.966
95	MSC21/2	1105	15	158.775	50.80	69.80	74.63	30.23	87.00
100	MSC21/16	1110	16	6.2510	2.000	2.748	2.938	1.190	3.425
105	MSC21/8	1115	17	168.300	50.80	69.80	77.77	33.37	92.00
110	MSC21/4	1120	18	6.6260	2.000	2.748	3.062	1.314	3.622
115	MSC21/2	1125	19	177.825	55.56	76.99	82.55	33.37	98.50
120	MSC21/16	1130	20	7.0010	2.187	3.031	3.250	1.314	3.878
125	MSC21/8	1135	21	188.937	63.50	83.29	85.72	34.18	106.02
130	MSC21/4	1140	22	7.4385	2.500	3.279	3.375	1.346	4.174
135	MSC21/2	1145	23	207.987	63.50	88.06	96.04	39.73	111.66
140	MSC21/16	1150	24	8.1885	2.500	3.467	3.781	1.564	4.396
145	MSC21/8	1155	25	241.325	76.20	106.38	117.48	49.27	130.43
150	MSC21/4	1160	26	9.5010	3.000	4.188	4.625	1.940	5.135

**For these bore sizes select from SLC Series (see page 64).

Please check availability

SCHB SERIES (BSP thread)
SCH SERIES (metric thread)**

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



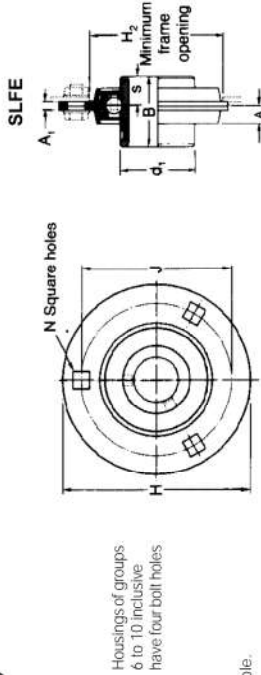
Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'FS' e.g. SCHB35FS.

Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSCH35

Shaft diameter	RHP designation		Basic bearing insert	Casting group	Dimensions G (BSP)	G (metric)	G _i	L	H	H _i	A
	BSP thread	metric thread									
mm	inches						mm	inches			
20	3/4	SCHB20	SCH20	0	1/2	M16 x 2.00	19.0 -748	67.0 2.638	91.6 3.606	57.2 2.252	34.0 1.339
		SCHB1/4	SCH1/4								
		SCHB25	SCH25								
25	7/8	SCHB30	SCH30	2/0	1/2	M20 x 2.50	16.0 -630	89.0 3.504	107.5 4.232	61.9 2.437	33.5 1.319
30	1	SCHB7/8	SCH7/8								
35	1 1/8	SCHB1	SCH1								
35	1 1/8	SCHB11/8	SCH11/8	1	3/4	M24 x 3.00	19.0 -748	97.0 3.819	119.0 4.685	69.8 2.748	39.5 1.555
		SCHB35	SCH35								
		SCHB13/16	SCH13/16								
40	1 1/2	SCHB11/4	SCH11/4	2	3/4	M24 x 3.00	19.0 -748	107.0 4.213	127.5 5.020	73.0 2.874	39.1 1.555
45	1 1/2	SCHB19/16	SCH19/16								
50	1 11/16	SCHB40	SCH40								
50	1 11/16	SCHB17/16	SCH17/16	3	1	M24 x 3.00	21.0 -827	121.0 4.764	144.0 5.669	82.6 3.252	47.5 1.870
		SCHB45	SCH45								
		SCHB80	SCH80								
55	2 1/4	SCHB11/16	SCH11/16	4	1 1/4	M42 x 4.50	29.0 1.142	146.5 5.768	175.0 6.890	101.6 4.000	58.5 2.303
		SCHB19/4	SCH19/4								
		SCHB17/8	SCH17/8								
60	1 3/4	SCHB17/8	SCH17/8	4/65	1 1/4	M42 x 4.50	29.0 1.142	146.5 5.768	175.0 6.890	101.6 4.000	58.5 2.303
65	2 1/8	SCHB15/16	SCH15/16								
70	2 1/2	SCHB2	SCH2								
65	2 1/2	SCHB55	SCH55	5	1 1/2	M48 x 5.00	32.0 1.260	165.0 6.496	200.6 7.898	117.5 4.626	70.0 2.756
		SCHB60	SCH60								
		SCHB29/16	SCH29/16								
75	2 11/16	SCHB21/4	SCH21/4	1080	6	M48 x 5.00	32.0 1.260	174.5 6.870	211.5 8.327	123.8 4.874	71.5 2.815
80	2 7/8	SCHB23/4	SCH23/4								
85	2 13/16	SCHB27/8	SCH27/8								
80	3	SCHB27/16	SCH27/16	6	1 1/2	M48 x 5.00	32.0 1.260	174.5 6.870	211.5 8.327	123.8 4.874	71.5 2.815
		SCHB215/16	SCH215/16								
		SCHB27/8	SCH27/8								
90	3 3/16	SCHB80	SCH80	1080	6	M48 x 5.00	32.0 1.260	174.5 6.870	211.5 8.327	123.8 4.874	71.5 2.815
95	3 1/2	SCHB3	SCH3								
100	3 5/8	SCHB39/16	SCH39/16								

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

SLFE SERIES (ISO)

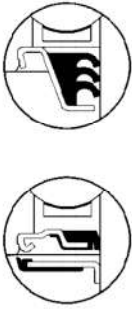


Housings of groups 6 to 10 inclusive have four bolt holes.

Note: these units are not re-greaseable.

Shaft diameter	RHP designation	Basic bearing insert	Housing Dimensions				N	A	A ₁	
			H	H ₂	J	H ₂				
mm	inches		mm	inches						
12	SLFE12	SLFE12EC	1017	1	81.0	49.0	63.5	7.1	6.7	4.0
15	SLFE15	SLFE15EC			3.189	1.929	2.500	.280	.264	.157
16	SLFE16	SLFE16EC								
17	SLFE17	SLFE17EC								
1 1/2	SLFE1/2	SLFE1/2EC								
5/8	SLFE5/8	SLFE5/8EC								
20	SLFE20	SLFE20A SLFE20EC	1020	2	90.5	55.0	71.5	8.7	7.7	4.0
3/4	SLFE3/4	SLFE3/4A SLFE3/4EC			3.563	2.165	2.815	.343	.303	.157
25	SLFE25	SLFE25A SLFE25EC	1025	3	95.2	60.0	76.0	8.7	8.7	4.0
7/8	SLFE7/8	SLFE7/8EC			3.748	2.362	2.992	.343	.343	.157
1 5/16	SLFE1 5/16	SLFE1 5/16A SLFE1 5/16EC								
1	SLFE1	SLFE1A SLFE1EC								
30	SLFE30	SLFE30A SLFE30EC	1030	4	112.7	71.0	90.5	10.5	9.0	5.0
1 1/8	SLFE1 1/8	SLFE1 1/8A SLFE1 1/8EC			4.437	2.795	3.563	.413	.354	.197
1 3/16	SLFE1 3/16	SLFE1 3/16A SLFE1 3/16EC								
1 1/4	SLFE1 1/4	SLFE1 1/4A SLFE1 1/4EC								
1 1/4	SLFE1 1/4	SLFE1 1/4A SLFE1 1/4AEC								
35	SLFE35	SLFE35A SLFE35EC	1035	5	122.2	81.0	100.0	10.5	10.0	5.0
1 3/8	SLFE1 3/8	SLFE1 3/8A SLFE1 3/8EC			4.811	3.189	3.937	.413	.394	.197
1 7/16	SLFE1 7/16	SLFE1 7/16A SLFE1 7/16EC								
40	SLFE40	SLFE40A SLFE40EC	1040	6	147.8	91.0	119.0	13.5	10.0	7.0
1 1/2	SLFE1 1/2	SLFE1 1/2A SLFE1 1/2EC			5.819	3.583	4.685	.531	.394	.276
45	SLFE45	SLFE45A SLFE45EC	1045	7	149.2	97.00	120.5	13.5	10.0	7.0
1 5/8	SLFE1 5/8	SLFE1 5/8A SLFE1 5/8EC			5.874	3.819	4.744	.531	.394	.276
1 11/16	SLFE1 11/16	SLFE1 11/16A SLFE1 11/16EC								
1 3/4	SLFE1 3/4	SLFE1 3/4A SLFE1 3/4EC								
50	SLFE50	SLFE50A SLFE50EC	1050	8	155.6	102.0	127.0	13.5	10.5	8.0
1 7/8	SLFE1 7/8	SLFE1 7/8A SLFE1 7/8EC			6.126	4.016	5.000	.531	.413	.315
1 15/16	SLFE1 15/16	SLFE1 15/16A SLFE1 15/16EC								
2	SLFE2	SLFE2A SLFE2EC	1055	9	166.6	113.0	138.0	13.5	10.7	8.0
2 1/8	SLFE2 1/8	SLFE2 1/8A SLFE2 1/8EC			6.559	4.449	5.433	.531	.421	.315
2 1/8	SLFE2 1/8	SLFE2 1/8A SLFE2 1/8AEC								
60	SLFE60	SLFE60A SLFE60EC	1060	10	176.2	122.0	147.6	13.5	11.9	8.0
2 1/4	SLFE2 1/4	SLFE2 1/4A SLFE2 1/4EC			6.937	4.803	5.811	.531	.469	.315
2 7/16	SLFE2 7/16	SLFE2 7/16A SLFE2 7/16EC								

Please check availability



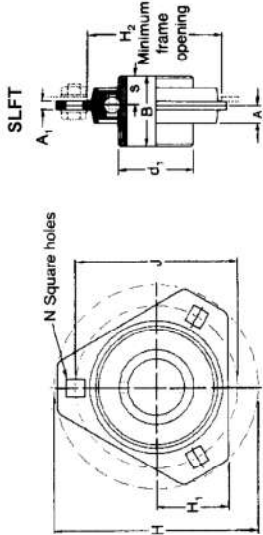
Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix FS, e.g. SLFE25FS.

Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix T, e.g. TSLFE25.

B	B1	B2	B3	s	s1	s2	d1	d2	Max. radial housing load	Rec.max. speed	Mass (approx.)
mm	inches								newtons lbf	rev/min	kg lb
27.38	-	28.54	-	11.55	6.55	-	24.21	28.58	2670	3000	0.2
1-078	-	1-124	-	.455	.258	-	.953	1-125	600		0.5
30.96	25.77	30.92	43.62	12.75	7.56	17.12	28.50	33.30	3110	3000	0.3
1-219	1-015	1-217	1-717	.502	.298	.674	1-122	1-311	700		0.7
34.11	27.35	30.92	44.40	14.32	7.56	17.49	34.01	38.10	3560	2500	0.4
1-343	1-077	1-217	1-748	.564	.298	.685	1-339	1-500	800		0.9
38.10	31.21	35.68	48.42	15.93	9.04	18.32	40.00	44.45	4890	2500	0.7
1-500	1-229	1-405	1-906	.627	.356	.721	1-575	1-750	1100		1.5
42.38	34.90	38.88	51.18	17.53	9.55	18.89	46.69	55.58	6250	2000	0.9
1-688	1-374	1-531	2-015	.690	.376	.744	1-838	2-188	1400		2.0
49.23	41.18	43.64	56.34	19.10	11.05	21.46	52.70	60.30	7550	2000	1.5
1-938	1-621	1-718	2-218	.752	.435	.845	2-075	2-374	1700		3.3
49.23	41.18	43.64	56.34	19.10	11.05	21.46	57.30	63.50	7550	2000	1.6
1-938	1-621	1-718	2-218	.752	.435	.845	2-256	2-500	1700		3.5
51.59	43.54	43.64	62.70	19.10	11.05	24.65	62.20	69.85	8450	1500	1.8
2-031	1-714	1-718	2-469	.752	.435	.970	2-449	2-750	1900		4.0
55.55	-	-	71.44	22.28	-	27.82	68.81	76.20	10200	1500	2.2
2-187	-	-	2-813	.877	-	1-095	2-709	3-000	2300		4.8
65.07	-	-	77.82	25.45	-	31.02	75.34	84.12	11300	1500	2.5
2-562	-	-	3-064	1-002	-	1-221	2-966	3-312	2540		5.5

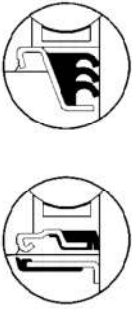
A modified version of these units is available if a Protector is to be fitted, see page 102 for details.

SLFT SERIES (ISO)



Note: these units are not re-greaseable.

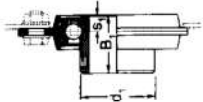
Shaft diameter	RHP designation	Basic bearing insert	Housing group		Dimensions					
			H	H ₁	H ₂	J	N	A		
			mm							
			inches							
25	SLFT25	SLFT25A	95.2	34.2	60.0	76.0	8.7	8.7		
	SLFT7/8	SLFT25EC	3.748	1.346	2.362	2.992	.343	.343		
	SLFT15/16	SLFT7/8EC								
	SLFT1	SLFT1A								
30	SLFT30	SLFT30A	112.7	40.2	71.0	90.5	10.5	9.0		
	SLFT11/8	SLFT30EC	4.437	1.583	2.795	3.563	.413	.354		
	SLFT13/16	SLFT11/8EC								
	SLFT11/4	SLFT11/4A								
35	SLFT11/4	SLFT11/4AL	122.2	44.2	81.0	100.0	10.5	10.0		
	SLFT35	SLFT35A	4.811	1.740	3.189	3.937	.413	.394		
	SLFT13/8	SLFT35EC								
	SLFT17/16	SLFT17/16EC								



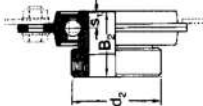
Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. SLFT35FS.

Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSLFT35.

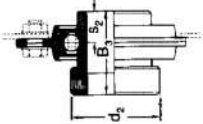
SLFT-A



SLFT-EC



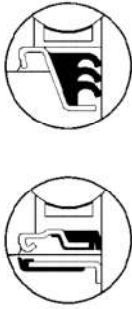
SLFT-DEC



A ₁	B	B ₁	B ₂	B ₃	S	S ₁	S ₂	d ₁	d ₂	Max. radial housing load	Rec. max. speed (approx.)	Mass
mm												
inches												
4.0	34.11	27.35	30.92	44.40	14.32	7.56	17.49	34.01	38.10	3560	2500	0.3
.157	1.343	1.077	1.217	1.748	.564	.298	.689	1.339	1.500	800		0.7
5.0	38.10	31.21	35.68	48.42	15.93	9.04	18.32	40.00	44.45	4890	2500	0.5
.197	1.500	1.229	1.405	1.906	.627	.356	.721	1.575	1.750	1100		1.1
5.0	42.88	34.90	38.88	51.18	17.53	9.55	18.89	46.69	55.58	6250	2000	0.7
.197	1.688	1.374	1.531	2.016	.690	.376	.744	1.838	2.188	1400		1.5

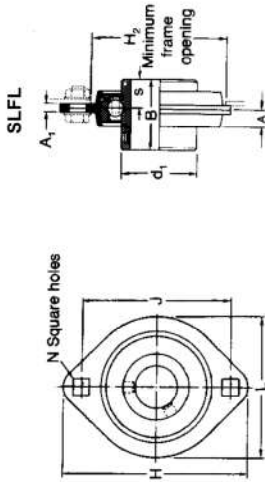
A modified version of these units is available if a Protector is to be fitted, see page 102 for details.

SLFL SERIES (ISO)



Bearing inserts with flinger seals shown on pages 91 and 92 can be fitted into these housings. The unit reference has the suffix 'FS', e.g. SLFL1FS.

Triple seal bearing inserts shown on pages 88 to 90 can be fitted into these housings. The unit reference has a prefix 'T', e.g. TSLFL1.

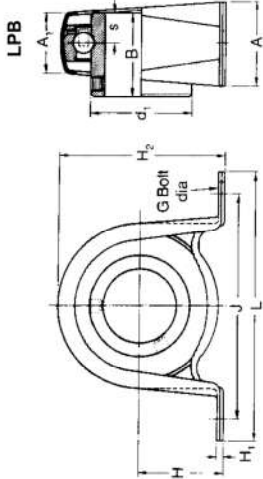


Note: these units are not re-greaseable.

Shaft diameter	RHP designation	Basic Housing Dimensions									
		Insert	L	H	H ₂	J	N	A			
mm	inches		mm	inches							
12		SLFL12	58.7	81.0	49.0	63.5	7.1	6.7			
15		SLFL15	2.311	3.189	1.929	2.500	.280	.264			
16		SLFL16									
17	1/2	SLFL17									
	5/8	SLFL17/2									
		SLFL17/4									
20	3/4	SLFL20	66.7	90.5	55.0	71.5	8.7	7.7			
		SLFL20A	2.626	3.563	2.165	2.815	.343	.303			
25	7/8	SLFL25	71.0	95.3	60.0	76.0	8.7	8.7			
	1 1/16	SLFL25A	2.795	3.752	2.362	2.992	.343	.343			
30	1 1/8	SLFL30	84.1	112.7	71.0	90.5	10.5	9.0			
	1 1/4	SLFL30A	3.311	4.437	2.795	3.563	.413	.354			
35	1 3/8	SLFL35	93.8	122.8	81.0	100.0	11.0	10.0			
	1 7/8	SLFL35A	3.693	4.835	3.189	3.937	.433	.394			
40	1 1/2	SLFL40	100.0	148.0	90.0	119.0	13.9	10.4			
		SLFL40A	3.937	5.827	3.543	4.685	.547	.409			

A modified version of these units is available if a Protector is to be fitted, see page 102 for details.

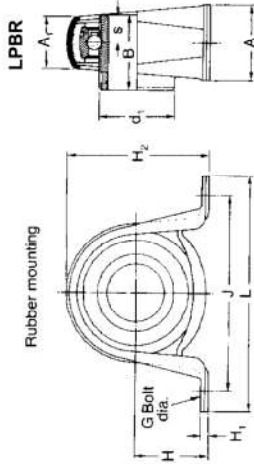
LPB SERIES (ISO)



Note: these units are not re-greaseable.

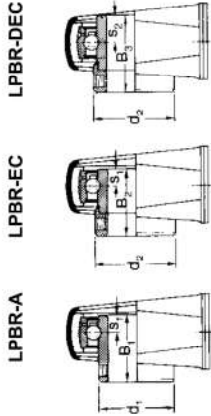
Shaft diameter	RHP designation	Basic bearing insert	Housing group	Dimensions													
				L	H	H1	H2	J	G								
mm	inches			mm													
				inches													
12 15 16 17	LPB12	LPB12EC	1017	1	85.7	22.2	2.4	43.2	68.0	8							
	LPB15	LPB15EC									3.374	.874	.094	1.701	2.677	5/16	
	LPB16	LPB16EC															
	LPB17	LPB17EC															
	LPB1/2	LPB1/2EC															
5/8	LPB5/8	LPB5/8EC															
20 3/4	LPB20	LPB20A	1020	2	98.4	25.4	2.4	49.9	76.0	8							
	LPB3/4	LPB3/4A									3.874	1.000	.094	1.965	2.992	5/16	
		LPB20EC															LPB20DEC
		LPB3/4EC															LPB3/4DEC
25 7/8 15/16 1	LPB25	LPB25A	1025	3	108.0	28.6	2.8	55.8	86.0	10							
	LPB7/8	LPB7/8EC									LPB7/8DEC						
	LPB15/16	LPB15/16EC									LPB15/16DEC						
	LPB1	LPB1A									LPB1EC	LPB1DEC					
30 1 1/8 1 3/16 1 1/4	LPB30	LPB30A	1030	4	117.5	33.3	3.6	65.7	95.0	10							
	LPB1 1/8	LPB1 1/8EC									LPB1 1/8DEC						
	LPB1 3/16	LPB1 3/16EC									LPB1 3/16DEC						
	LPB1 1/4	LPB1 1/4A									LPB1 1/4EC	LPB1 1/4DEC					
35 1 1/4 1 3/8 1 7/8	LPB1 1/4	LPB1 1/4A	1035	5	128.6	39.7	4.4	77.5	106.0	10							
	LPB35	LPB35A									LPB35EC	LPB35DEC					
	LPB1 3/8	LPB1 3/8EC									LPB1 3/8DEC						
	LPB1 7/8	LPB1 7/8EC									LPB1 7/8DEC						

LPBR SERIES



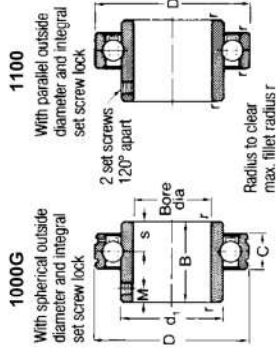
Note: these units are not re-greaseable.

Shaft diameter	RHP designation	Basic bearing insert	Housing group	Dimensions						
				L	H	H ₁	H ₂	J	G	
				mm Inches						
mm										
inches										
12	LPBR12 LPBR15 LPBR16 LPBR17	LPBR12EC LPBR15EC LPBR16EC LPBR17EC LP								



A	A1	B	B1	B2	B3	S	S1	S2	d1	d2	Max. downward radial load	Rec. max. speed	Mass (approx.)
											newtons lbf	rev/ min	kg lb
mm													
inches													
31.7	21.6	27.38	-	28.54	-	11.55	6.55	-	24.21	28.58	890	3000	0.2
1.248	.850	1.078	-	1.124	-	.455	.258	-	.953	1.125	200		0.5
31.7	21.6	30.96	25.77	30.92	43.62	12.75	7.56	17.12	28.50	33.30	1110	3000	0.3
1.248	.850	1.219	1.015	1.217	1.717	.502	.298	.674	1.122	1.311	250		0.7
37.5	25.5	34.11	27.35	30.92	44.40	14.32	7.56	17.49	34.01	38.10	1330	2500	0.5
1.476	1.004	1.343	1.077	1.217	1.748	.564	.298	.689	1.339	1.500	300		1.1
41.0	28.4	38.10	31.21	35.68	48.42	15.93	9.04	18.32	40.00	44.45	1560	2500	0.9
1.614	1.118	1.500	1.229	1.405	1.906	.627	.356	.721	1.575	1.750	350		1.9

1000G AND 1100 SERIES (ISO)



Shaft diameter	RHP designation 1000G series	1100 series	Dimensions				ISO load ratings				Rec. max. speed	Mass (approx.)
			D	C	B	s	d1	M	r	C _r	rev/ min	
mm	inches		mm	inches						newtons lbf		kg lb
12	1017-12G	1117-12	40.000	12.00	27.38	11.55	24.21	5.35	0.60	9550	7000	0.09
15	1017-15G	1117-15	1-5748	.472	1-078	.455	.953	.211	-.024	2150	1070	.20
16	1017-16G	1117-16										
17	1017-17G	1117-17										
1/2	1017-1/2G	1117-1/2										
5/8	1017-5/8G	1117-5/8										
20	1020-20G	1120-20	47.000	14.00	30.96	12.75	28.50	5.00	1.00	12800	6700	0.13
	1020-20G	1120-20	1-8504	.551	1-219	.502	1.122	.197	-.039	2880	1480	.28
25	1025-25G	1125-25	52.000	15.00	34.11	14.32	34.01	5.35	1.00	14000	7880	0.17
7/8	1025-7/8G	1125-7/8	2-0472	.591	1-343	.564	1.339	.211	-.039	3150	1770	.38
1 1/8	1025-1 1/8G	1125-1 1/8										
1	1025-1G	1125-1										
25	1030-25G	1130-25	62.000	16.00	38.10	15.93	40.00	5.85	1.00	19500	5300	0.37
30	1030-30G	1130-30	2-4409	.630	1-500	.627	1.575	.230	-.039	4380	2540	.81
1 1/8	1030-1 1/8G	1130-1 1/8										
1 3/8	1030-1 3/8G	1130-1 3/8										
1 1/4	1030-1 1/4G	1130-1 1/4										
30	1035-30G	1135-30	72.000	17.00	42.88	17.53	46.69	7.35	1.00	25700	4500	0.51
35	1035-35G	1135-35	2-8346	.669	1-688	.690	1.838	.289	-.039	5780	3440	1.12
1 3/8	1035-1 3/8G	1135-1 3/8										
1 1/2	1035-1 1/2G	1135-1 1/2										
35	1040-35G	1140-35	80.000	18.00	49.23	19.10	52.70	7.95	1.00	29100	4000	0.64
40	1040-40G	1140-40	3-1496	.709	1-938	.752	2.075	.313	-.039	6540	4020	1.41
1 3/8	1040-1 3/8G	1140-1 3/8										
1 1/2	1040-1 1/2G	1140-1 1/2										
40	1045-40G	1145-40	85.000	19.00	49.23	19.10	57.30	7.95	1.00	32500	3700	0.73
45	1045-45G	1145-45	3-3465	.748	1-938	.752	2.256	.313	-.039	7310	4610	1.62
1 3/8	1045-1 3/8G	1145-1 3/8										
1 1/2	1045-1 1/2G	1145-1 1/2										
45	1050-45G	1150-45	90.000	20.00	51.59	19.10	62.20	8.95	1.00	35000	3400	0.91
50	1050-50G	1150-50	3-5433	.787	2-031	.752	2.449	.352	-.039	7870	5220	2.00
1 3/4	1050-1 3/4G	1150-1 3/4										
1 1/2	1050-1 1/2G	1150-1 1/2										
1 3/8	1050-1 3/8G	1150-1 3/8										
2	1050-2G	1150-2										
50	1055-50G	1155-50	100.000	21.00	55.55	22.28	68.81	9.55	1.50	43500	3100	1.12
55	1055-55G	1155-55	3-9370	.827	2-187	.877	2.709	.376	-.059	9780	6560	2.47
1 3/8	1055-1 3/8G	1155-1 3/8										
1 1/2	1055-1 1/2G	1155-1 1/2										
2 1/8	1055-2 1/8G	1155-2 1/8										

Please check availability

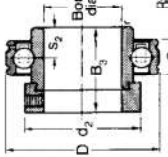
Shaft diameter	RHP designation 1000G series	1100 series	Dimensions				ISO load ratings				Rec. max. speed	Mass (approx.)
			D	C	B	s	d1	M	r	C _r	rev/ min	
mm	inches		mm	inches						newtons lbf		kg lb
55	1060-55G	1160-55	110.000	22.00	65.07	25.45	75.34	9.55	1.50	52500	2800	1.47
60	1060-60G	1160-60	4-3307	.866	2-562	1-002	2-966	.376	-.059	11800	8070	3.25
2 3/8	1060-2 3/8G	1160-2 3/8										
2 1/2	1060-2 1/2G	1160-2 1/2										
2 7/8	1060-2 7/8G	1160-2 7/8										
60	1065-60G	1165-60	120.000	23.00	65.07	25.45	82.40	9.55	1.50	57500	4000	2.02
65	1065-65G	1165-65	4-7244	.906	2-562	1-002	3-244	.376	-.059	12930	8990	4.45
2 1/2	1065-2 1/2G	1165-2 1/2										
60	1070-60G	1170-60	125.000	24.00	74.63	30.23	87.00	12.15	1.50	62000	4400	2.27
65	1070-65G	1170-65	4-9213	.945	2-938	1-190	3-425	.478	-.059	13940	9990	5.00
70	1070-70G	1170-70										
2 7/8	1070-2 7/8G	1170-2 7/8										
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	77.77	33.37	92.00	12.75	1.50	66000	49300	2.61
70	1075-70G	1175-70	5-1181	.984	3-062	1-314	3-622	.502	-.059	14840	11080	5.75
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 5/8	1075-2 5/8G	1175-2 5/8										
3	1075-3G	1175-3										
75	1080-75G	1180-75	140.000	26.00	82.55	33.37	98.50	11.15	2.00	75000	53000	3.23
80	1080-80G	1180-80	5-5118	1-024	3-250	1-314	3-878	.439	-.079	16300	11910	7.12
2 5/8	1080-2 5/8G	1180-2 5/8										
3	1080-3G	1180-3										
3 3/8	1080-3 3/8G	1180-3 3/8										
3 1/4	1080-3 1/4G	1180-3 1/4										
80	1085-80G	1185-80	150.000	28.00	85.72	34.18	106.02	11.95	2.00	83500	63800	3.74
85	1085-85G	1185-85	5-9055	1-102	3-375	1-346	4-174	.470	-.079	18770	14340	8.25
3 3/8	1085-3 3/8G	1185-3 3/8										
3 1/4	1085-3 1/4G	1185-3 1/4										
3 3/8	1085-3 3/8G	1185-3 3/8										
3 7/8	1085-3 7/8G	1185-3 7/8										
85	1090-85G	1190-85	160.000	30.00	96.04	39.73	111.66	11.95	2.00	96000	71500	4.99
90	1090-90G	1190-90	6-2992	1-181	3-781	1-564	4-396	.470	-.079	21580	16070	11.00
3 7/8	1090-3 7/8G	1190-3 7/8										
3 1/2	1090-3 1/2G	1190-3 1/2										
95	3095-95G		200.000	45.00	117.48	49.27	130.43	19.05	2.50	143000	110000	9.53
100	3095-100G		7-8740	1-772	4-625	1-940	5-135	.750	-.098	32150	24730	21.00
3 5/8	3095-3 5/8G											
4	3095-4G											

1000DECG AND 1100DEC SERIES (ISO)

1200G AND 1300 SERIES

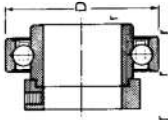
1000DECG

With spherical outside diameter and eccentric collar lock



1100DEC

With parallel outside diameter and eccentric collar lock

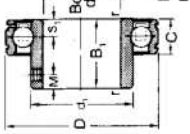


Shaft diameter	RHP designation	Dimensions				ISO load ratings				Rec. max. speed	Mass (approx.)
		D	C	B ₂	s ₂	d ₂	r	C _r	C _r		
mm	inches	mm	inches					newtons lbf	newtons lbf	rev/ min	kg lb
20	3/4	47.000 1.8504	14.00 -551	43.62 1.717	17.12 -674	33.30 1.311	1.00 -039	12800 2880	6580 1480	7450 1480	0.20 -44
25	7/8	52.000 2.0472	15.00 -591	44.40 1.748	17.49 -689	38.10 1.500	1.00 -039	14000 3150	7880 1770	6250 1370	0.26 -57
30	1	62.000 2.4409	16.00 -630	48.42 1.906	18.32 -721	44.45 1.750	1.00 -039	19500 4380	11300 2540	5300 1170	0.53 1.17
35	1 1/8	72.000 2.8346	17.00 -669	51.18 2.015	18.89 -744	55.58 2.188	1.00 -039	25700 5780	15300 3440	4500 1000	0.70 1.54
40	1 1/2	80.000 3.1496	18.00 -709	56.34 2.218	21.46 -845	60.30 2.374	1.00 -039	29100 6540	17900 4020	4000 890	0.82 1.81
45	1 5/8	85.000 3.3465	19.00 -748	56.34 2.218	21.46 -845	63.50 2.500	1.00 -039	32500 7310	20500 4610	3700 820	1.08 2.38
50	1 3/4	90.000 3.5433	20.00 -787	62.70 2.469	24.65 -970	69.85 2.750	1.00 -039	35000 7870	23200 5220	3400 750	1.19 2.62
55	1 7/8	100.000 3.9370	21.00 -827	71.44 2.813	27.82 1.095	76.20 3.000	1.50 -059	43500 9780	29200 6560	3100 690	1.40 3.09
60	2	110.000 4.3307	22.00 -866	77.82 3.064	31.02 1.221	84.12 3.312	1.50 -059	52500 11800	35900 8070	2800 620	1.72 3.79
65	2 1/8	120.000 4.7244	23.00 -906	77.82 3.064	31.02 1.221	87.33 3.438	1.50 -059	57500 12930	40000 8990	2600 570	2.21 4.87
70	2 1/4	125.000 4.9213	24.00 -945	85.36 3.361	34.19 1.346	96.82 3.812	1.50 -059	62000 13940	44000 9890	2450 540	2.56 5.64
75	2 3/8	130.000 5.1181	25.00 -984	91.72 3.611	37.37 1.471	101.60 4.000	1.50 -059	66000 14840	49300 11080	2300 500	2.94 6.48

Please check availability

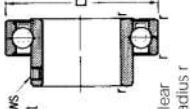
1200G

With spherical outside diameter and integral set screw lock



1300

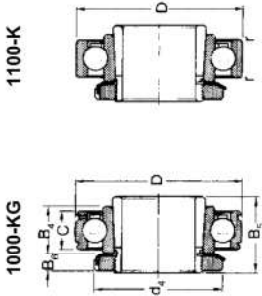
With parallel outside diameter and integral set screw lock



Shaft diameter	RHP designation	Dimensions				ISO load ratings				Rec. max. speed	Mass (approx.)
		D	C	B ₁	s ₁	d ₁	M	r	C _r		
mm	inches	mm	inches						newtons lbf	rev/ min	kg lb
20	3/4	47.000 1.8504	14.00 -551	25.77 1.015	7.56 -298	28.50 1.122	5.35 -211	1.00 -039	12800 2880	7450 1480	0.10 -22
25	1	52.000 2.0472	15.00 -591	27.35 1.077	7.56 -298	34.01 1.339	5.35 -211	1.00 -039	14000 3150	6250 1370	0.13 -29
30	1 1/4	62.000 2.4409	16.00 -630	31.21 1.229	9.04 -356	40.00 1.575	5.85 -230	1.00 -039	19500 4380	5300 1170	0.32 -71
35	1 1/2	72.000 2.8346	17.00 -669	34.90 1.374	9.55 -376	46.69 1.838	7.35 -289	1.00 -039	25700 5780	4500 1000	0.43 -95
40	1 3/4	80.000 3.1496	18.00 -709	41.18 1.621	11.05 -435	52.70 2.075	7.95 -313	1.00 -039	29100 6540	4000 890	0.54 1.19
45	1 5/8	85.000 3.3465	19.00 -748	41.18 1.621	11.05 -435	57.30 2.256	7.95 -313	1.00 -039	32500 7310	3700 820	0.61 1.34
50	1 3/4	90.000 3.5433	20.00 -787	43.54 1.714	11.05 -435	62.20 2.449	8.95 -352	1.00 -039	35000 7870	3400 750	0.76 1.68

Please check availability

1000-KG AND 1100-K SERIES

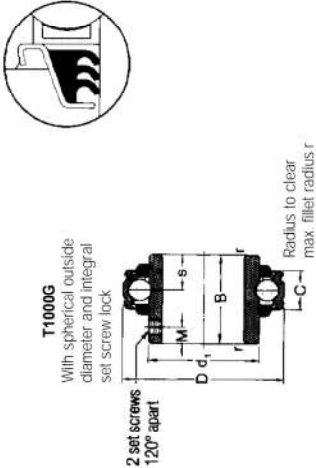


1000-KG

1100-K

Shaft diameter	RHP designation 1000-KG series	1100-K series	sleeve, nut & lockwasher assembly only	bearing insert without sleeve, nut & lockwasher 1000KG series	1100K series	Dimensions						
						D	C	B ₄	B ₅	B ₆	d	
mm	mm											
inches	inches											
20	3/4	1025-20KG 1025-3/4KG	1125-20K 1125-3/4K	H305 HE305-3/4	1025KG	1125K	52.000 2.0472	15.00 .591	19.00 .748	29.00 1.142	8.00 .315	25.000 .9843
25	15/16 1	1030-25KG 1030-15/16KG 1030-1KG	1130-25K 1130-15/16K 1130-1K	H306 HE306-15/16 HE306-1	1030KG	1130K	62.000 2.4409	16.00 .630	20.00 .787	31.00 1.220	8.00 .315	30.000 1.1811
30	1 1/8 1 1/16	1035-30KG 1035-1 1/8KG 1035-1 1/16KG	1135-30K 1135-1 1/8K 1135-1 1/16K	H307 HE307-1 1/8 HE307-1 1/16	1035KG	1135K	72.000 2.8346	17.00 .669	21.00 .827	35.00 1.378	9.00 .354	35.000 1.3780
35	1 1/4 1 3/8	1040-35KG 1040-1 1/4KG 1040-1 3/8KG	1140-35K 1140-1 1/4K 1140-1 3/8K	H308 HE308-1 1/4 HE308-1 3/8	1040KG	1140K	80.000 3.1496	18.00 .709	22.00 .866	36.00 1.417	10.00 .394	40.000 1.5748
40	1 7/16 1 1/2	1045-40KG 1045-1 7/16KG 1045-1 1/2KG	1145-40K 1145-1 7/16K 1145-1 1/2K	H309 HE309-1 7/16 HE309-1 1/2	1045KG	1145K	85.000 3.3465	19.00 .748	23.00 .906	39.00 1.535	11.00 .433	45.000 1.7717
45	1 11/16 1 3/4	1050-45KG 1050-1 11/16KG 1050-1 3/4KG	1150-45K 1150-1 11/16K 1150-1 3/4K	H310 HE310-1 11/16 HE310-1 3/4	1050KG	1150K	90.000 3.5433	20.00 .787	24.00 .945	42.00 1.654	12.00 .472	50.000 1.9685
50	1 15/16 2	1055-50KG 1055-1 15/16KG 1055-2KG	1155-50K 1155-1 15/16K 1155-2K	H311 HE311-1 15/16 HE311-2	1055KG	1155K	100.000 3.9370	21.00 .827	25.00 .984	45.00 1.772	12.00 .472	55.000 2.1654

T1000G SERIES



Shaft diameter	RHP designation	Dimensions			ISO load ratings			Rec. max. speed	Mass (approx.)				
		D	C	B	s	d ₁	M			r	C _r	dynamic	static
mm		mm								newtons	lb/	rev/min	kg
inches		inches								lbf			lb
25	T1025-25G	52.000	15.00	34.11	14.32	34.01	5.35	1.00	14000	7880	1000	0.17	
	T1025-7/8G	2.0472	-.591	1.343	-.564	1.339	-.211	-.039	3150	1770		-.38	
	T1025-15/16G												
	T1025-1G												
	T1030-25G	62.000	18.00	38.10	15.93	40.00	5.85	1.0	19500	11300	850	0.37	
30	T1030-30G	2.4409	-.709	1.500	-.627	1.575	-.230	-.039	4380	2540		-.81	
	T1030-7/8G												
	T1030-1G												
	T1030-1/2G												
	T1030-1/4G												
30	T1035-30G	72.000	19.00	42.88	17.53	46.69	7.35	1.00	25700	15300	750	0.51	
	T1035-35G	2.8346	-.748	1.688	-.690	1.838	-.289	-.039	5780	3440		1.12	
	T1035-1/2G												
	T1035-1/4G												
	T1035-1/8G												
35	T1035-1/16G												
	T1040-35G	80.000	21.00	49.23	19.10	52.70	7.95	1.00	29100	17900	650	0.64	
	T1040-40G	3.1496	-.827	1.938	-.752	2.075	-.313	-.039	6540	4020		1.41	
	T1040-1/2G												
	T1040-1/4G												
40	T1045-40G	85.000	22.00	49.23	19.10	57.30	7.95	1.00	32500	20500	600	0.73	
	T1045-45G	3.3465	-.866	1.938	-.752	2.256	-.313	-.039	7310	4610		1.62	
	T1045-1/2G												
	T1045-1/4G												
	T1045-1/8G												
45	T1045-1/16G												
	T1050-45G	90.000	23.00	51.59	19.10	62.20	8.95	1.00	35000	23200	550	0.91	
	T1050-50G	3.5433	-.906	2.031	-.752	2.449	-.352	-.039	7870	5220		2.00	
	T1050-1/2G												
	T1050-1/4G												
50	T1050-1/8G												
	T1050-1/16G												
	T1055-50G	100.000	25.00	55.55	22.26	68.81	9.55	1.50	43500	29200	500	1.12	
	T1055-55G	3.9370	-.984	2.187	-.877	2.709	-.376	-.059	9780	6560		2.47	
	T1055-1/2G												
55	T1055-1/4G												
	T1055-1/8G												
	T1055-1/16G												
	T1055-2G												
	T1055-2/16G												

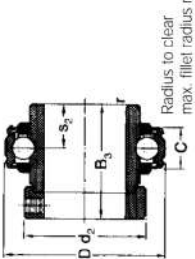
Please check availability.

Shaft diameter	RHP designation	Dimensions			ISO load ratings			Rec. max. speed	Mass (approx.)			
		D	C	B	s	d ₁	M			r	C _d	newtons lbf
mm		mm									kg	
inches		inches									lb	
55 60	T1060-55G	110.000	25.00	65.07	25.45	75.34	9.55	1.50	52500	35900	450	1.50
	T1060-60G	4.3307	-.984	2.562	1.002	2.966	.376	-.059	11800	8070		3.30
	T1060-2/16G											
	T1060-2/8G											
	T1060-2/16G											
60 65 70	T1070-60G	125.000	28.00	74.63	30.23	87.00	12.15	1.50	62000	44000	400	2.30
	T1070-65G	4.9213	1.102	2.938	1.190	3.425	.478	-.059	13940	9890		5.07
	T1070-70G											
	T1070-2/16G											
	T1070-2/8G											
75 80	T1070-2/16G											
	T1080-75G	140.000	30.00	82.55	33.37	98.50	11.15	2.00	72500	53000	345	3.27
	T1080-80G	5.5118	1.181	3.250	1.314	3.878	.439	-.079	16300	11910		7.20
	T1080-2/16G											
	T1080-3G											

T1000DECG SERIES



T1000DECG
With spherical outside
diameter and eccentric
collar lock



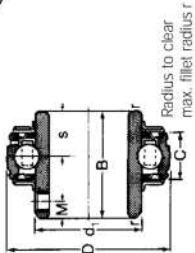
Shaft diameter	RHP designation	Dimensions				ISO load ratings			Rec. Mass max. speed (approx.)		
		D	C	B ₃	s ₂	d ₂	r	C _r			
mm	inches	mm						newtons lbf	newtons lbf	rev/ min	kg lb
25 7/8 15/16 1	T1025-25DECG	52.000	15.00	44.40	17.49	38.10	1.00	14000	7880	1000	0.26
	T1025-7/8DECG	2.0472	-.591	1.748	-.689	1.500	-.039	3150	1770		-.57
	T1025-15/16DECG										
	T1025-1DECG										
30 11/8 13/16 1 1/4	T1030-30DECG	62.000	18.00	48.42	18.32	44.45	1.00	19500	11300	850	0.53
	T1030-11/8DECG	2.4409	-.709	1.906	-.721	1.750	-.039	4380	2540		1.17
	T1030-3/4DECG										
	T1030-11/4DECG										
35 1 1/4 13/8 1 7/16	T1035-35DECG	72.000	19.00	51.18	18.89	55.58	1.00	25700	15300	750	0.70
	T1035-11/8DECG	2.8346	-.748	2.015	-.744	2.188	-.039	5780	3440		1.54
	T1035-3/4DECG										
	T1035-17/16DECG										
40 1 1/2	T1040-40DECG	80.000	21.00	56.34	21.46	60.30	1.00	29100	17900	650	0.82
	T1040-11/8DECG	3.1496	-.827	2.218	-.845	2.374	-.039	6540	4020		1.81
	T1045-45DECG	85.00	22.00	56.34	21.46	63.50	1.00	32500	20500	600	1.08
	T1045-11/8DECG	3.3465	-.866	2.218	-.845	2.500	-.039	7310	4610		2.38
45 15/8 1 7/16 1 3/4	T1045-45DECG										
	T1045-11/8DECG										
	T1045-17/16DECG										
	T1045-11/4DECG										
50 1 7/8 1 5/8	T1050-50DECG	90.000	23.00	62.70	24.65	69.85	1.00	35000	23200	550	1.19
	T1050-17/8DECG	3.5433	-.906	2.469	-.970	2.750	-.039	7870	5220		2.62
	T1050-13/8DECG										
	T1050-11/2DECG										
55 2 2 1/8 2 1/4 2 3/16	T1055-55DECG	100.000	25.00	71.44	27.82	76.20	1.50	43500	29200	500	1.40
	T1055-2DECG	3.9370	-.984	2.813	1.095	3.000	-.059	9780	6560		3.09
	T1055-11/8DECG										
	T1055-21/16DECG										
60 2 1/4 2 7/16	T1060-60DECG	110.000	25.00	77.82	31.02	84.12	1.5	52500	35900	450	1.81
	T1060-21/8DECG	4.3307	-.984	3.064	1.221	3.312	-.059	11800	8070		4.00
	T1060-21/4DECG										
	T1060-27/16DECG										
65 2 1/4 2 7/16	T1070-65DECG	125.000	28.00	85.36	34.19	96.82	1.5	62000	44000	400	2.49
	T1070-70DECG	4.9213	1.102	3.361	1.346	3.812	-.059	13940	9890		5.50
	T1070-70DECG										
	T1070-70DECG										
80 2 3/4	T1080-80DECG	140.000	30.00	99.95	40.53	111.12	2.0	72500	53000	350	3.54
	T1080-80DECG	5.5118	1.181	3.935	1.596	4.375	-.079	16300	11910		7.80
	T1080-80DECG										
	T1080-80DECG										

Please check availability

1000GFS SERIES



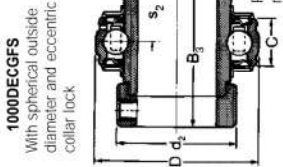
1000GFS
With spherical outside
diameter and integral
set screw lock



Shaft diameter	RHP designation	Dimensions		ISO load ratings				Rec. max. speed	Mass (approx.)			
		D	C	B	s	d ₁	M			r	C _i	C _{er}
mm	inches	mm	inches						newtons lbf	newtons lbf	rev/ min	kg lb
25	1025-25GFS	52.000	15.00	34.11	14.32	34.01	5.35	1.00	14000	7880	6250	0.17
	1025-7/8GFS	2.0472	-.591	1.343	-.564	1.339	-.211	-.039	3150	1770		-.38
	1025-15/16GFS											
	1025-1GFS											
25	1030-25GFS	62.000	16.00	38.10	15.93	40.00	5.85	1.00	19500	11300	5300	0.37
	1030-30GFS	2.4409	-.630	1.500	-.627	1.575	-.230	-.039	4380	2540		-.81
	1030-7/8GFS											
	1030-11/8GFS											
30	1030-11/8GFS	72.000	17.00	42.88	17.53	46.69	7.35	1.00	25700	15300	4500	0.51
	1030-11/4GFS	2.8346	-.669	1.688	-.690	1.838	-.289	-.039	5780	3440		1.12
	1035-30GFS											
	1035-35GFS											
35	1035-11/8GFS	80.000	18.00	49.23	19.10	52.70	7.95	1.00	29100	17900	4000	0.64
	1035-11/4GFS	3.1496	-.709	1.938	-.752	2.075	-.313	-.039	6540	4020		1.41
	1040-35GFS											
	1040-40GFS											
40	1040-40GFS	85.000	19.00	49.23	19.10	57.30	7.95	1.00	32500	20500	3700	0.73
	1040-11/8GFS	3.3465	-.748	1.938	-.752	2.256	-.313	-.039	7310	4610		1.62
	1045-40GFS											
	1045-11/2GFS											
45	1045-11/2GFS	90.000	20.00	51.59	19.10	62.20	8.95	1.00	35000	23200	3400	0.91
	1045-11/8GFS	3.5433	-.787	2.031	-.752	2.449	-.352	-.039	7870	5220		2.00
	1045-11/4GFS											
	1045-11/8GFS											
50	1050-45GFS	100.000	21.00	55.55	22.28	68.81	9.55	1.50	43500	29200	3100	1.12
	1050-50GFS	3.9370	-.827	2.187	-.877	2.709	-.376	-.059	9780	6560		2.47
	1050-11/8GFS											
	1050-20GFS											
55	1055-50GFS	110.000	22.00	65.07	25.45	75.34	9.55	1.50	52500	35900	2800	1.47
	1055-55GFS	4.3307	-.866	2.562	1.002	2.966	-.376	-.059	11800	8070		3.25
	1055-11/8GFS											
	1055-11/4GFS											
60	1055-20GFS	125.000	28.00	85.36	34.19	96.82	1.5	62000	44000	400	2.49	
	1055-21/8GFS	4.9213	1.181	3.361	1.346	3.812	-.059	13940	9890		5.50	
	1060-55GFS											
	1060-60GFS											
60	1060-21/8GFS	140.000	30.00	99.95	40.53	111.12	2.0	72500	53000	350	3.54	
	1060-21/4GFS	5.5118	1.102	3.361	1.346	3.812	-.059	13940	9890		5.50	
	1060-21/8GFS											
	1060-21/4GFS											

Please check availability

1000DECGFS SERIES



1000DECGFS

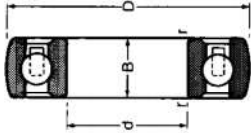
With spherical outside diameter and eccentric collar lock

Radius to clear max. fillet radius r

Shaft diameter	RHP designation	Dimensions				ISO load ratings				Rec. max. speed	Mass (approx.)
		D	C	B3	s2	d2	r	Cr	static		
mm	inches	mm	inches	mm	inches	mm	inches	newtons	lbf	rev/min	kg
25		52.000	15.00	44.40	17.49	38.10	1.00	14000	7880	6250	0.26
7/8		2.0472	.591	1.748	.689	1.500	.039	3150	1770		.57
15/16											
1											
30		62.000	16.00	48.42	18.32	44.45	1.00	19500	11300	5300	0.53
1 1/8		2.4409	.630	1.906	.721	1.750	.039	4380	2540		1.17
1 3/16											
1 1/4											
35		72.000	17.00	51.18	18.89	55.58	1.00	25700	15300	4500	0.70
1 1/4		2.8346	.669	2.015	.744	2.188	.039	5780	3440		1.54
1 5/8											
1 3/8											
1 7/8											
40		80.000	18.00	56.34	21.46	60.30	1.00	29100	17900	4000	0.82
1 1/2		3.1496	.709	2.218	.845	2.374	.039	6540	4020		1.81
45		85.000	19.00	56.34	21.46	63.50	1.00	32500	20500	3700	1.08
1 5/8		3.3465	.748	2.218	.845	2.500	.039	7310	4610		2.38
1 7/8											
50		90.000	20.00	62.70	24.65	69.85	1.00	35000	23200	3400	1.19
1 7/8		3.5433	.787	2.469	.970	2.750	.039	7870	5220		2.62
1 5/16											
55		100.000	21.00	71.44	27.82	76.20	1.50	43500	29200	3100	1.40
2		3.9370	.827	2.813	1.095	3.000	.059	9780	6560		3.09
2 1/8											
2 1/16											
60		110.000	22.00	77.82	31.02	84.12	1.50	52500	35900	2800	1.72
2 1/4		4.3307	.866	3.064	1.221	3.312	.059	11800	8070		3.79
2 3/8											
2 1/2											

Please check availability.

1726200-2RS SERIES
AND 1726300-2RS SERIES



Radius to clear max. fillet radius r

RHP designation	Dimensions				ISO load ratings				Axial load factor	Rec. max. speed	Mass (approx.)
	d	D	B	r	dynamic	static	newtons	lbf			
mm	inches	mm	inches	mm	newtons	lbf	newtons	lbf			
1726203-2RS	17.000	40.000	12.00	0.60	9550	4760	13.1	12500	0.06		
	-6693	1-5748	-472	-024	2150	1070			0.14		
1726204-2RS	20.000	47.000	14.00	1.00	12800	6580	13.1	14000	0.10		
	-7874	1-8504	-551	-039	2880	1480			0.22		
1726205-2RS	25.000	52.000	15.00	1.00	14000	7880	13.9	9800	0.12		
	-9843	2-0472	-591	-039	3150	1770			0.27		
1726206-2RS	30.000	62.000	16.00	1.00	19500	11300	13.8	8200	0.20		
	1-1811	2-4409	-630	-039	4380	2540			0.43		
1726207-2RS	35.000	72.000	17.00	1.00	25700	15300	13.8	7100	0.28		
	1-3780	2-8346	-669	-039	5780	3440			0.61		
1726208-2RS	40.000	80.000	18.00	1.00	29100	17400	14.0	6300	0.35		
	1-5748	3-1496	-709	-039	6540	4020			0.77		
1726209-2RS	45.000	85.000	19.00	1.00	32500	20500	14.1	5900	0.40		
	1-7717	3-3465	-748	-039	7310	4610			0.87		
1726210-2RS	50.000	90.000	20.00	1.00	35000	23200	14.4	5500	0.5		
	1-9685	3-5433	-787	-039	7870	5220			1.0		
1726308-2RS	40.000	90.000	23.00	1.50	40500	23900	13.2	5900	0.6		
	1-5748	3-5433	-906	-059	9100	5370			1.3		
1726309-2RS	45.000	100.000	25.00	1.50	53000	31700	13.0	5300	0.8		
	1-7717	3-9370	-984	-059	11900	7130			1.8		
1726310-2RS	50.000	110.000	27.00	2.00	62000	37900	13.0	4800	1.1		
	1-9685	4-3307	-1063	-079	13940	8520			2.4		

1726200-2RS series only:

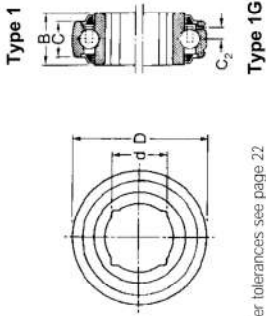
These bearings can be supplied fitted into standard housings and pressings. To obtain the unit designation add the "bearing bore" and "2RS" to the housing series reference, e.g. NP25-2RS.

For bore and outside dia. Tolerances see page 22.

Please check availability.

Self-Lube triple seal ball bearings (Disc Harrow type)
Square bore

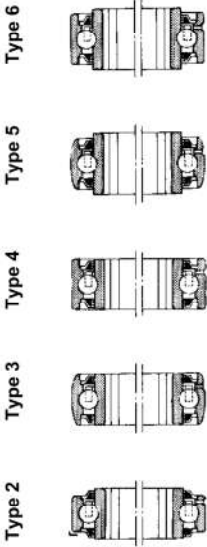
PDNF AND DNF SERIES
PDF AND DF SERIES



Note: For outer ring outside diameter tolerances see page 22

Square shaft	RHP designation	Type	Dimensions square bore		outside diameter		
			d nominal	d tolerance nominal to minus	D nominal	B nominal	C
mm	inches		mm	inches			
7/16	2/DNF240/7	1	23.09	0.20	80.000	36.51	18.00
	PDNF240/7Y	5	-909	-008	3-14%	1-438	-709
7/16	PDNF240/7Y		23.09	0.20	80.000	36.51	30.16
1	DNF140/8Y	1	-909	-008	3-14%	1-438	1-188
1	DNF240/8Y	1	26.30	0.20	80.000	30.16	21.00
	DNF240/8Y		-035	-008	3-14%	1-188	-827
	DNF240/8Y		26.30	0.20	80.000	36.51	21.00
	DNF240/8Y		1-035	-008	3-14%	1-438	-827
1	2/DNF240/8	1	26.30	0.20	80.000	36.51	18.00
	2/DNF240/8		1-035	-008	3-14%	1-438	-709
1	PDNF240/8Y	5	26.30	0.20	80.000	36.51	30.16
	PDNF240/8Y		1-035	-008	3-14%	1-438	1-188
1	1/PDNF240/8G	5G	26.30	0.20	80.000	36.51	24.00
	1/PDNF240/8G		1-035	-008	3-14%	1-438	-945
1	PDF240/8Y	6	26.30	0.20	80.000	36.51	30.16
	PDF240/8Y		1-035	-008	3-14%	1-438	1-188
1 1/16	DNF140/9	1	29.44	0.20	80.000	30.16	21.00
	DNF140/9		1-159	-008	3-14%	1-188	-827
1 1/16	DNF240/9Y	1	29.44	0.20	80.000	36.51	21.00
	DNF240/9Y		1-159	-008	3-14%	1-438	-827
1 1/16	2/DNF240/9	1	29.44	0.20	80.000	36.51	18.00
	2/DNF240/9		1-159	-008	3-14%	1-438	-709
1 1/16	DF140/9Y	2	29.44	0.20	80.000	30.16	21.00
	DF140/9Y		1-149	-008	3-14%	1-188	-827
1 1/16	2/DF240/9	2	29.44	0.20	80.000	36.51	18.00
	2/DF240/9		1-159	-008	3-14%	1-438	-709
1 1/16	PDNF240/9Y	5	29.44	0.20	80.000	36.51	30.16
	PDNF240/9Y		1-159	-008	3-14%	1-438	1-188
1 1/16	PDNF240/9GY	5G	29.44	0.20	80.000	36.51	30.16
	PDNF240/9GY		1-159	-008	3-14%	1-438	-866
1 1/16	1/PDNF240/9G	5G	29.44	0.20	80.000	36.51	24.00
	1/PDNF240/9G		1-159	-008	3-14%	1-438	-244
1 1/16	PDF240/9Y	6	29.44	0.20	80.000	36.51	30.16
	PDF240/9Y		1-159	-008	3-14%	1-438	-945
1 1/16	DNF145/9Y	1	29.44	0.20	85.000	30.16	22.00
	DNF145/9Y		1-159	-008	3-3465	1-188	-866
1 1/16	PDNF145/9Y	3	29.44	0.20	85.000	30.16	30.16
	PDNF145/9Y		1-159	-008	3-3465	1-188	-7310
1 1/16	PDNF245/9Y	5	29.44	0.20	85.000	36.51	30.16
	PDNF245/9Y		1-159	-008	3-3465	1-438	1-188
1 1/16	PDNF150/9Y	3	29.44	0.20	90.000	30.16	30.16
	PDNF150/9Y		1-159	-008	3-5433	1-188	-7870

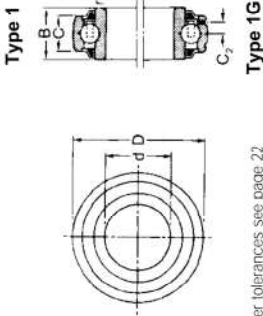
Please check availability



Type 2G Type 3G Type 4G Type 5G Type 6G

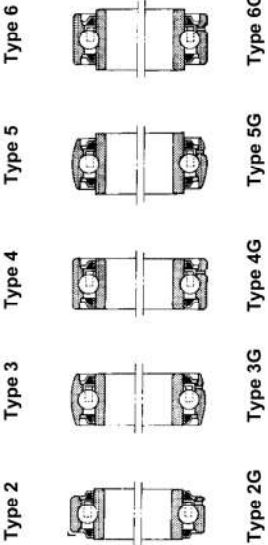
C ₂	r	ISO load ratings		Rec. max speed	Mass (approx.)		Interchange data		NDH
		C _r dynamic	C _{st} static		F _{ah} lbf	BCA			
mm	inches	newtons	lbf	rev/min	kg	lb			
-	-	29100	17900	650	0.74	1.62	W208PPB13	DS208TT13	AS4508FF
-	-	6540	4020	650	0.89	1.96			
-	-	6540	4020	650	0.63	1.39			
-	-	29100	17900	650	0.39	0.86			
-	-	6540	4020	650	0.19	0.43			
-	-	6540	4020	650	1.52	3.35			
-	-	29100	17900	650	0.62	1.37	W208PPB6	DS208TT6	AS4508BK
-	-	6540	4020	650	0.63	1.39			
-	1.00	29100	17900	650	0.63	1.39			
-	-039	6540	4020	650	0.69	1.52			
-	1.00	29100	17900	650	0.69	1.52	W208PP6	DC208TT6	
-	-039	6540	4020	650	0.72	1.59			
-	-	29100	17900	650	0.81	1.79	W208PP9	DS208TT9	AS4508BE
-	-	6540	4020	650	0.79	1.75	GW208PPB6	DS208TT86	RAS4508AE
6.20	-244	29100	17900	650	0.81	1.79	W208PP9		AS4508AD
-	-	6540	4020	650	0.59	1.30			
-	-039	29100	17900	650	0.59	1.30			
-	-	6540	4020	650	0.63	1.39			
-	-	29100	17900	650	0.58	1.28	W208PPB5	DS208TT5	AS4508BJ
-	-	6540	4020	650	0.59	1.28			
-	1.00	29100	17900	650	0.59	1.28			
-	-039	6540	4020	650	0.58	1.28	W208PP5	DC208TT5	AS4508BH
-	-	29100	17900	650	0.58	1.28			
-	-039	6540	4020	650	0.75	1.66	W208PPB8	DS208TT8	AS4508EF
-	-	29100	17900	650	0.75	1.66	GW208PPB8	DS208TT88	RAS4508EF
6.20	-244	29100	17900	650	0.75	1.66			
-	-	6540	4020	650	0.70	1.54	GW208PPB5	DS208TT85	RAS4508BJ
6.20	-244	29100	17900	650	0.75	1.66	WS208PP8	DC208TT8	AS4508BD
-	-	6540	4020	650	0.70	1.54			
-	-	32500	20500	600	0.70	1.54			
-	-	7310	4610	600	0.78	1.72			
-	-	32500	20500	600	0.83	1.83			
-	-	32500	20500	600	0.83	1.83			
-	-	32500	20500	600	0.95	2.09			
-	-	35000	23200	550	0.95	2.09	W210PPB4	DS210TT4	AS4510F
-	-	7870	5220	2 11					

PDNF AND DNF SERIES
PDF AND DF SERIES

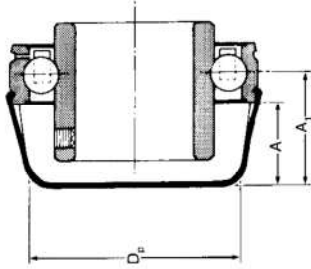


Note: For outer ring outside diameter tolerances see page 22

Shaft diameter	RHP designation spherical outside diameter	Type	Dimensions bore diameter		outside diameter	
			d nominal	tolerance nominal to minus	D nominal	C
mm			mm			
Inches			Inches			
50	DNF155-50GY	1G	50.000	0.013	100.000	33.34
			1.9685	-0005	3.9370	1.312
2 1/16	DNF155-2 1/16Y	1	55.578	0.015	100.000	33.34
			2.1881	-0006	3.9370	1.312
2 3/16	PDNF155-2 3/16Y	3	55.578	0.015	100.000	33.34
			2.1881	-0006	3.9370	1.312
2 7/16	PDNF155-2 7/16GY	3G	55.578	0.015	100.000	33.34
			2.1881	-0006	3.9370	1.312
2 1/2	PDF155-2 1/2Y	4	55.578	0.015	100.000	33.34
			2.1881	-0006	3.9370	1.312
2 5/8	PDF155-2 5/8GY	4G	55.578	0.015	100.000	33.34
			2.1881	-0006	3.9370	1.312



C ₂	r	ISO load ratings		Rec. max speed	Mass (approx.)	Interchange data		
		C _r	C ₁₀			F ₁₀	BCA	NDH
mm		newtons	newtons	rev/ min	kg			
inches		lbf	lbf		lb			
7.40	1.50	43500	29200	500	0.77			
		9780	6560		1.70			
-.291	-.059	9780	29200	500	0.91			
-	-	43500	29200		2.00			
-	-.059	9780	6560		2.00			
-	-	43500	29200	500	0.96	DS211PPB2	DS211TT2	
-	-.059	9780	6560		2.13			
7.40	1.50	43500	29200	500	0.96	GW211PPB2	DS211TT2	
		9780	6560		2.13			
-.291	-.059	9780	29200	500	1.05	W211PP2	DS211TT2	AS4511C
-	-	43500	29200		2.33			
-	-.059	9780	6560		2.33			
7.40	1.50	43500	29200	500	1.05	GW211PP2	DC211TT2	RAS4511C
		9780	6560		2.33			
-.291	-.059	9780	29200	500	1.05			
-	-	43500	29200		2.33			
-	-.059	9780	6560		2.33			



The Protector range

RHP designation	Dimensions		Basic bearing insert
	Dp	A	
	mm		
	inches		
20P	37.0	23.0	1020
	1.457	.906	1-181
25P	42.5	23.0	1025
	1.673	.906	1-201
30P	50.5	26.5	1030
	1.988	1.043	1-358
35P	60.5	28.5	1035
	2.382	1.122	1-457
40P	67.5	30.5	1040
	2.657	1.201	1-555
45P	72.0	30.0	1045
	2.835	1.181	1-555
50P	76.0	32.5	1050
	2.992	1.280	1-673
55P	85.0	37.5	1055
	3.346	1.476	1-890
60P	94.0	40.5	1060
	3.700	1.594	2-028

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

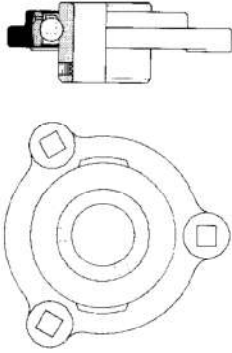
Protectors for Self-Lube units

Bore size	Self-Lube Unit															
	NP	SFT	SNP	LFTC	FC	ST	BT	SLEP	SLFTP	MFC	SCHB	NP-K	MP			
	NP-A	SFT-A	SNP-A	LFTC-A	FC-A	STA	BTA	SLEP-A	SLFTP-A		SCH	NP-K	MSF			
	NP-EC	SFT-EC	SNP-EC	LFTC-EC	FC-EC	STEC	BTEC	SLEP-EC	SLFTP-EC			MSF-K	MSFT			
	NP-DEC	SFT-DEC	SNP-DEC	LFTC-DEC	FC-DEC	ST-DEC		SLEP-DEC	SLFTP-DEC			MSF-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, 3/4	20P	20P	20P	20P	20P	20P	-	20P	-	-	20P	25P	-			
25, 7/8, 1 1/16, 1	25P	25P	25P	25P	25P	25P	-	25P	25P	30P	30P	30P	30P	35P	35P	
30, 1 1/8	30P	30P	30P	30P	30P	30P	-	30P	30P	35P	35P	35P	35P	35P	35P	
1 3/16	30P	30P	30P	30P	30P	30P	-	30P	30P	35P	35P	35P	35P	35P	35P	
1 1/4	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	
35, 1 3/8	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	
1 7/16	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	35P	
40, 1 1/2	40P	40P	40P	40P	40P	40P	-	40P*	-	40P	40P	40P	40P	40P	40P	
45, 1 5/8	45P	45P	45P	45P	45P	45P	-	45P*	-	45P	45P	45P	45P	45P	45P	
1 11/16, 1 3/4	45P	45P	45P	45P	45P	45P	-	45P*	-	45P	45P	45P	45P	45P	45P	
50, 1 7/8, 1 15/16, 50P	50P	50P	50P	50P	50P	50P	-	50P*	-	50P	50P	50P	50P	50P	50P	
2	55P	55P	55P	55P	55P	55P	-	55P*	-	55P	55P	55P	55P	55P	55P	
55, 2 1/8, 2 3/16, 55P	55P	55P	55P	55P	55P	55P	-	55P*	-	55P	55P	55P	55P	55P	55P	
2 1/4	60P	60P	60P	60P	60P	60P	-	60P*	-	60P	60P	60P	60P	60P	60P	
60, 2 3/8, 2 1/16, 60P	60P	60P	60P	60P	60P	60P	-	60P*	-	60P	60P	60P	60P	60P	60P	

Note 1 The appropriate Protector is determined by the basic bearing insert group.
2 When a pressing from the series SLFL, SLEP or SLFT is fitted with a Protector, the unit reference includes the letter 'P', e.g. SLEP-25EC.

LF series

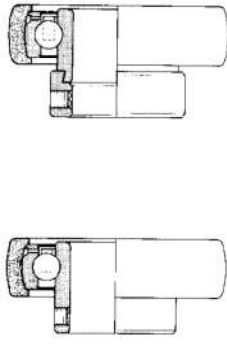
A range of three bolt spherical graphite iron housed units, available in bore sizes 25mm to 35mm and 1" to 1 7/16". These are non-re-greaseable.



LF series

AR-A series, AR-EC series

The AR series is the bearing and rubber cartridge used in the LPBR unit (Pages 78 and 79). Available as a series for users who have their own housing. Bore sizes 12mm to 30mm and 1/2" to 1 1/4".

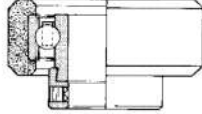


AR-A series

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.



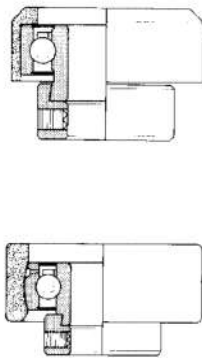
SRM-EC series

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.)

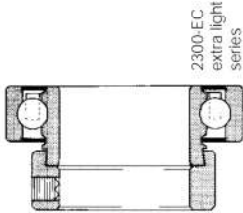


SRC-EC series

Special SRC types

2300-EC extra light series

The 2300-EC series is an extra light bearing available in bore sizes 20mm to 30mm and 3/4" to 1 3/16".



1600-G series, 1600-HG series

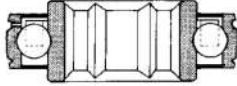
A range of spherical outside diameter deep groove wide inner ring ball bearings with either round or hexagonal bores.

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.

The standard Self-Lube cage and seals are fitted.



1600-G series



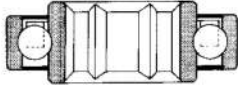
1600-HG series

1700 series, 1700-H series

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



1700 series



1700-H series

Conversion factors for British and S.I. Units

Quantity	Conversions
Mass	1 lb = 0.4536 kg 1 kg = 2.205 lb
Force	1 lbf = 4.448 N 1 N = 0.2248 lbf
Torque	1 lbf ft = 1.3558 Nm 1 lbf in = 0.1130 Nm 1 Nm = 0.7376 lbf ft 1 Nm = 8.850 lbf in

Temperature conversion table

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
-110	-178	-100	-160	-90	-130	-80	-112	-70	-58	-60	-76	-50	-58	-40	-40	-30	-22	-10	-14
-90	-130	-80	-112	-70	-58	-60	-76	-50	-58	-40	-40	-30	-22	-10	-14	0	32	50	112
-70	-58	-60	-76	-50	-58	-40	-40	-30	-22	-10	-14	0	32	50	112	70	158	90	182
-50	-58	-40	-40	-30	-22	-10	-14	0	32	50	112	70	158	90	182	110	230	130	266
-30	-22	-10	-14	0	32	50	112	70	158	90	182	110	230	130	266	150	302	160	320
-10	14	0	32	10	50	20	68	30	86	40	104	50	122	60	140	70	158	80	176
10	50	20	68	30	86	40	104	50	122	60	140	70	158	80	176	90	182	100	212
20	68	30	86	40	104	50	122	60	140	70	158	80	176	90	182	110	230	120	248
30	86	40	104	50	122	60	140	70	158	80	176	90	182	100	212	120	248	130	266
40	104	50	122	60	140	70	158	80	176	90	182	100	212	110	230	130	266	140	284
50	122	60	140	70	158	80	176	90	182	100	212	110	230	120	248	130	266	150	302
60	140	70	158	80	176	90	182	100	212	110	230	120	248	130	266	140	284	160	320
70	158	80	176	90	182	100	212	110	230	120	248	130	266	140	284	150	302	170	338
80	176	90	182	100	212	110	230	120	248	130	266	140	284	150	302	160	320	180	356
90	182	100	212	110	230	120	248	130	266	140	284	150	302	160	320	170	338	190	374
100	212	110	230	120	248	130	266	140	284	150	302	160	320	170	338	180	356	200	392
110	230	120	248	130	266	140	284	150	302	160	320	170	338	180	356	190	374	210	410
120	248	130	266	140	284	150	302	160	320	170	338	180	356	190	374	200	392	220	430
130	266	140	284	150	302	160	320	170	338	180	356	190	374	200	392	210	410	230	450
140	284	150	302	160	320	170	338	180	356	190	374	200	392	210	410	220	430	240	470
150	302	160	320	170	338	180	356	190	374	200	392	210	410	220	430	230	450	250	500
160	320	170	338	180	356	190	374	200	392	210	410	220	430	230	450	240	470	260	530
170	338	180	356	190	374	200	392	210	410	220	430	230	450	240	470	250	500	270	570
180	356	190	374	200	392	210	410	220	430	230	450	240	470	250	500	260	530	280	630
190	374	200	392	210	410	220	430	230	450	240	470	250	500	260	530	270	570	290	700
200	392	210	410	220	430	230	450	240	470	250	500	260	530	270	570	280	630	300	820
210	410	220	430	230	450	240	470	250	500	260	530	270	570	280	630	290	700	310	930
220	430	230	450	240	470	250	500	260	530	270	570	280	630	290	700	300	820	320	1000
230	450	240	470	250	500	260	530	270	570	280	630	290	700	300	820	310	930	330	1100
240	470	250	500	260	530	270	570	280	630	290	700	300	820	310	930	320	1000	340	1200
250	500	260	530	270	570	280	630	290	700	300	820	310	930	320	1000	330	1100	350	1300
260	530	270	570	280	630	290	700	300	820	310	930	320	1000	330	1100	340	1200	360	1400
270	570	280	630	290	700	300	820	310	930	320	1000	330	1100	340	1200	350	1300	370	1500
280	630	290	700	300	820	310	930	320	1000	330	1100	340	1200	350	1300	360	1400	380	1600
290	700	300	820	310	930	320	1000	330	1100	340	1200	350	1300	360	1400	370	1500	390	1700
300	820	310	930	320	1000	330	1100	340	1200	350	1300	360	1400	370	1500	380	1600	400	1800
310	930	320	1000	330	1100	340	1200	350	1300	360	1400	370	1500	380	1600	390	1700	410	1900
320	1000	330	1100	340	1200	350	1300	360	1400	370	1500	380	1600	390	1700	400	1800	420	2000
330	1100	340	1200	350	1300	360	1400	370	1500	380	1600	390	1700	400	1800	410	1900	430	2100
340	1200	350	1300	360	1400	370	1500	380	1600	390	1700	400	1800	410	1900	420	2000	440	2200
350	1300	360	1400	370	1500	380	1600	390	1700	400	1800	410	1900	420	2000	430	2100	450	2300
360	1400	370	1500	380	1600	390	1700	400	1800	410	1900	420	2000	430	2100	440	2200	460	2400
370	1500	380	1600	390	1700	400	1800	410	1900	420	2000	430	2100	440	2200	450	2300	470	2500
380	1600	390	1700	400	1800	410	1900	420	2000	430	2100	440	2200	450	2300	460	2400	480	2600
390	1700	400	1800	410	1900	420	2000	430	2100	440	2200	450	2300	460	2400	470	2500	490	2700
400	1800	410	1900	420	2000	430	2100	440	2200	450	2300	460	2400	470	2500	480	2600	500	2800
410	1900	420	2000	430	2100	440	2200	450	2300	460	2400	470	2500	480	2600	490	2700	510	2900
420	2000	430	2100	440	2200	450	2300	460	2400	470	2500	480	2600	490	2700	500	2800	520	3000
430	2100	440	2200	450	2300	460	2400	470	2500	480	2600	490	2700	500	2800	510	2900	530	3100
440	2200	450	2300	460	2400	470	2500	480	2600	490	2700	500	2800	510	2900	520	3000	540	3200
450	2300	460	2400	470	2500	480	2600	490	2700	500	2800	510	2900	520	3000	530	3100	550	3300
460	2400	470	2500	480	2600	490	2700	500	2800	510	2900	520	3000	530	3100	540	3200	560	3400
470	2500	480	2600	490	2700	500	2800	510	2900	520	3000	530	3100	540	3200	550	3300	570	3500
480	2600	490	2700	500	2800	510	2900	520	3000	530	3100	540	3200	550	3300	560	3400	580	3600
490	2700	500	2800	510	2900	520	3000	530	3100	540	3200	550	3300	560	3400	570	3500	590	3700
500	2800	510	2900	520	3000	530	3100	540	3200	550	3300	560	3400	570	3500	580	3600	600	3800
510	2900	520	3000	530	3100	540	3200	550	3300	560	3400	570	3500	580	3600	590	3700	610	3900
520	3000	530	3100	540	3200	550	3300	560	3400	570	3500	580	3600	590	3700	600	3800	620	4000
530	3100	540	3200	550	3300	560	3400	570	3500	580	3600	590	3700	600	3800	610	3900	630	4100
540	3200	550	3300	560	3400	570	3500	580	3600	590	3700	600	3800	610	3900	620	4000	640	4200
550	3300	560	3400	570	3500	580	3600	590	3700	600	3800	610	3900	620	4000	630	4100	650	4300
560	3400	570	3500	580	3600	590	3700	600	3800	610	3900	620	4000	630	4100	640	4200	660	4400
570	3500	580	3600	590	3700	600	3800	610	3900	620	4000	630	4100	640	4200	650	4300	670	4500
580	3600	590	3700	600	3800	610	3900	620	4000	630	4100	640	4200	650	4300	660	4400	680	4600
590	3700	600	3800	610	3900	620	4000	630	4100	640	4200	650	4300	660	4400	670	4500	690	4700
600	3800	610	3900	620	4000	630	4100	640	4200	650	4300	660	4400	670	4500	680	4600	700	4800
610	3900	620	4000	630	4100	640	4200	650	4300	660	4400	670	4500	680	4600	690	4700	710	4900
620	4000	630	4100	640	4200	650	4300	660	4400	670	4500	680	4600	690	4700	700	4800	720	5000
630	4100	640	4200	650	4300	660	4400	670	4500	680	4600	690	4700	700	4800	710	4900	730	5100
640	4200	650	4300	660	4400	670	4500	680	4600	690	4700	700	4800	710	4900	720	5000	740	5200
650	4300	660	4400	670	4500	680	4600	690	4700	700	4800	710	4900	720	5000	730	5100	750	5300
660	4400	670	4500	680	4600	690	4700	700	4800	710	4900	720	5000	730	5100	740	5200	760	5400
670	4500	680	46																

Metric/inch conversions

Inch/metric conversions

mm	0	10	20	30	40	50	60	70	80	90
0		0.39370	0.78740	1.18110	1.57480	1.96850	2.36220	2.75590	3.14961	3.54331
1	0.03937		0.82677	1.22047	1.61417	2.00787	2.40157	2.79528	3.18898	3.58268
2	0.07874	0.47244		1.25984	1.65354	2.04724	2.44094	2.83464	3.22835	3.62205
3	0.11811	0.51181	0.90551	1.29921	1.69291	2.08661	2.48031	2.87402	3.26772	3.66142
4	0.15748	0.55118	0.94488	1.33858	1.73228	2.12598	2.51968	2.91338	3.30709	3.70079
5	0.19685	0.59055	0.98425	1.37795	1.77165	2.16535	2.55906	2.95276	3.34646	3.74016
6	0.23622	0.62992	1.02362	1.41732	1.81102	2.20472	2.59842	2.99212	3.38583	3.77953
7	0.27559	0.66929	1.06299	1.45669	1.85039	2.24409	2.63780	3.03150	3.42520	3.81890
8	0.31496	0.70866	1.10236	1.49606	1.88976	2.28346	2.67716	3.07087	3.46457	3.85827
9	0.35433	0.74803	1.14173	1.53543	1.92913	2.32283	2.71654	3.11024	3.50394	3.89764

mm	0	100	200	300	400	500	600	700	800	900
0		3.93701	7.87402	11.8110	15.7480	19.6850	23.6220	27.5590	31.4961	35.4331
5	0.19685		8.07087	12.0079	15.9449	19.8819	23.8189	27.7559	31.6929	35.6299
10	0.39370	4.33071		12.2047	16.1417	20.0787	24.0157	27.9528	31.8898	35.8268
15	0.59055	4.52756	8.46457	12.4016	16.3386	20.2756	24.2126	28.1496	32.0866	36.0236
20	0.78740	4.72441	8.66142	12.5984	16.5354	20.4724	24.4094	28.3464	32.2835	36.2205
25	0.98425	4.92126	8.85827	12.7953	16.7323	20.6693	24.6063	28.5433	32.4803	36.4173
30	1.18110	5.11811	9.05512	12.9921	16.9291	20.8661	24.8031	28.7402	32.6772	36.6142
35	1.37795	5.31496	9.25197	13.1890	17.1260	21.0630	25.0000	28.9370	32.8740	36.8110
40	1.57480	5.51181	9.44882	13.3858	17.3228	21.2598	25.1968	29.1338	33.0709	37.0079
45	1.77165	5.70866	9.64567	13.5827	17.5197	21.4567	25.3937	29.3307	33.2677	37.2047
50	1.96850	5.90551	9.84252	13.7795	17.7165	21.6535	25.5906	29.5276	33.4646	37.4016
55	2.16535	6.10236	10.0394	13.9764	17.9134	21.8504	25.7874	29.7244	33.6614	37.5984
60	2.36220	6.29921	10.2362	14.1732	18.1102	22.0472	25.9842	29.9212	33.8583	37.7953
65	2.55906	6.49606	10.4331	14.3701	18.3071	22.2441	26.1811	30.1181	34.0551	37.9921
70	2.75590	6.69291	10.6299	14.5669	18.5039	22.4409	26.3780	30.3150	34.2520	38.1890
75	2.95276	6.88976	10.8268	14.7638	18.7008	22.6378	26.5748	30.5118	34.4488	38.3858
80	3.14961	7.08661	11.0236	14.9606	18.8976	22.8346	26.7716	30.7087	34.6457	38.5827
85	3.34646	7.28346	11.2205	15.1575	19.0945	23.0315	26.9685	30.9055	34.8425	38.7795
90	3.54331	7.48031	11.4173	15.3543	19.2913	23.2283	27.1654	31.1024	35.0394	38.9764
95	3.74016	7.67716	11.6142	14.5512	19.4882	23.4252	27.3622	31.2992	35.2362	39.1732

mm	inches	mm	inches
0.001	0.000039	0.01	0.00039
0.002	0.000079	0.02	0.00079
0.003	0.000118	0.03	0.00118
0.004	0.000157	0.04	0.00157
0.005	0.000197	0.05	0.00197
0.006	0.000236	0.06	0.00236
0.007	0.000276	0.07	0.00276
0.008	0.000315	0.08	0.00315
0.009	0.000354	0.09	0.00354

1 METRE = 39.37 INCHES

inches	mm	inches	mm	inches	mm	inches	mm
1/32	1/64	0.015625	0.3969	11/32	0.34375	8.7312	0.671875
1/16	3/64	0.046875	1.1906	3/8	0.375	9.5250	0.6875
		0.0625	1.5875	25/64	0.390625	9.9219	0.703125
	5/64	0.078125	1.9844	13/32	0.40625	10.3188	0.71875
	3/32	0.09375	2.3812	27/64	0.421875	10.7156	0.734375
1/8	1/64	0.109375	2.7781	7/16	0.4375	11.1125	0.75
		0.125	3.1750	29/64	0.453125	11.5094	0.765625
	9/64	0.140625	3.5719	15/32	0.46875	11.9062	0.78125
	5/32	0.15625	3.9688	31/64	0.484375	12.3031	0.796875
	11/64	0.171875	4.3656	1/2	0.5	12.7000	0.8125
3/16		0.1875	4.7625	33/64	0.515625	13.0969	0.828125
	13/64	0.203125	5.1594	17/32	0.53125	13.4938	0.84375
	7/32	0.21875	5.5562	35/64	0.546875	13.8906	0.859375
1/4	15/64	0.234375	5.9531	9/16	0.5625	14.2875	0.875
		0.25	6.3500	37/64	0.578125	14.6844	0.890625
	17/64	0.265625	6.7469	19/32	0.59375	15.0812	0.90625
	9/32	0.28125	7.1438	39/64	0.609375	15.4781	0.921875
5/16	19/64	0.296875	7.5406	5/8	0.625	15.8750	0.9375
		0.3125	7.9375	41/64	0.640625	16.2719	0.953125
	21/64	0.328125	8.3344	21/32	0.65625	16.6688	0.96875
							0.984375

inches	0	1	2	3	4	5	6	7	8	9	10
0		mm	25.4000	50.8000	76.2000	101.600	127.000	152.400	177.800	203.200	228.600
	1/16	1.5875	26.9875	52.3875	77.7875	103.188	128.588	153.988	179.388	204.788	230.188
	1/8	3.1750	28.5750	55.9750	79.3750	104.775	130.175	155.575	180.975	206.375	231.775
	3/16	4.7625	30.1625	55.5625	80.9625	106.362	131.762	157.162	182.562	207.962	233.362
1/4		6.3500	31.7500	57.1500	82.5500	107.950	133.350	158.750	184.150	209.550	234.950
	5/16	7.9375	33.3375	58.7375	84.1375	109.538	134.938	160.338	185.738	211.138	236.538
	3/8	9.5250	34.9250	60.3250	85.7250	111.125	136.525	161.925	187.325	212.725	238.125
	7/16	11.1125	36.5125	61.9125	87.3125	112.712	138.112	163.512	188.912	214.312	239.712
1/2		12.7000	38.1000	63.5000	88.9000	114.300	139.700	165.100	190.500	215.900	241.300
	9/16	14.2875	39.6875	65.0875	90.4875	115.888	141.288	166.688	192.088	217.488	242.888
	5/8	15.8750	41.2750	66.6750	92.0750	117.475	142.875	168.275	193.675	219.075	244.475
	11/16	17.4625	42.8625	68.2625	93.6625	119.062	144.462	169.862	195.262	220.662	246.062
3/4		19.0500	44.4500	69.8500	95.2500	120.650	146.050	171.450	196.850	222.250	247.650
	13/16	20.6375	46.0375	71.4375	96.8375	122.238	147.638	173.038	198.438	223.838	249.238
	7/8	22.2250	47.6250	73.0250	98.4250	123.825	149.225	174.625	200.025	225.425	250.825
	15/16	23.8125	49.2125	74.6125	100.012	125.412	150.812	176.212	201.612	227.012	252.412

inches	mm	inches	mm	inches	mm	inches	mm
0.001	0.0254	0.007	0.1778	0.04	1.016	0.1	2.54
0.002	0.0508	0.008	0.2032	0.05	1.270	0.2	5.08
0.003	0.0762	0.009	0.2286	0.06	1.524	0.3	7.62
0.004	0.1016	0.01	0.254	0.07	1.778	0.4	10.16
0.005	0.1270	0.02	0.508	0.08	2.032	0.5	12.70
0.006	0.1524	0.03	0.762	0.09	2.286	0.6	15.24

1 INCH = 25.4 MILLIMETRES

[illegible]This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no vertical margin lines or other markings present.This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There is no handwriting or other markings on the paper.

Notes