PRODUCT CATALOGUE



an SKF Group brand

SKF

COOPER®

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BEARING TYPES

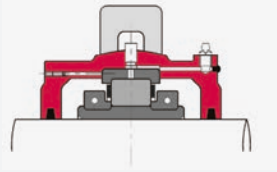
Cooper bearings are commonly supplied in two forms: the Fixed Type ('GR') and Expansion Type ('EX') as described below. Where conditions are unsuitable for these standard types other configurations are possible.

FIXED TYPE BEARINGS (GR)

The outer race of the fixed (GR) bearing has shoulders integral with the roller track, while the inner race assembly has shoulders formed by hardened lips on the clamping rings or similar integral shoulders.

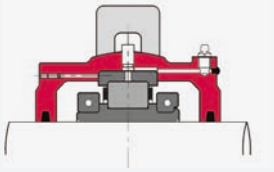
This type of bearing provides axial location to the rotating portions of machinery and can sustain both radial and axial loading.

The inner race halves are accurately aligned by means of fitted clamping rings.



GR BEARING (D TYPE)

01 and 02 Series through 300mm /12" shaft size and 03 Series through 155mm /6" shaft size. 100 Series all shaft sizes.



GR BEARING (C TYPE)

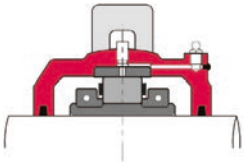
01 and 02 Series over 300mm /12" shaft size and 03 Series over 155mm /6" shaft size.

EXPANSION TYPE BEARINGS (EX)

The expansion (EX) bearing has a plain outer race roller track. This bearing takes radial load only.

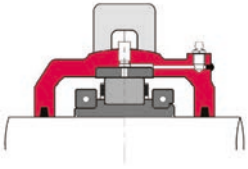
The inner race is clamped to the shaft, and moves axially with it when expansion or contraction occurs.

The Cooper expansion bearing offers virtually no resistance to axial movement as the rollers spiral through the outer race.



EX BEARING (D TYPE)

01 and 02 Series through 300mm /12" shaft size and 03 Series through 155mm /6" shaft size. 100 Series all shaft sizes.



EX BEARING (C TYPE)

01 and 02 Series over 300mm /12" shaft size and 03 Series over 155mm /6" shaft size.

HOUSING TYPES

Most styles of Cooper housing are available in cast iron, ductile iron or steel. Special types of housing, alternative materials and housings to special dimensions are available on request.

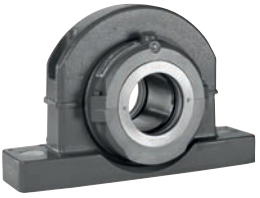
PEDESTALS

Pedestals (also called pillow blocks) are the most common mountings for Cooper bearings. Detail design and number of fixing bolts varies with bearing series and size.

Cooper offer ranges of pedestals that allow direct replacement of SNC, SD, and SAF pillow block units.



LARGE BORE BASE



TWO BOLT BASE

TAKE-UP AND ROD END MOUNTINGS

Take-up units are available as tension type (shown) or push type. Rod-end units are available as shoe type (shown) or tee type.



ROD END UNITS



TAKE-UP UNITS

FLANGEMOUNTINGS



ROUND FLANGE UNITS



SQUARE FLANGE UNITS

HANGERMOUNTINGS



HANGER UNITS



SELECTION FOR RADIAL LOAD

CALCULATING BEARING LIFE

Selection for radial loading is usually based on the radial load rating denoted by "Cr". The radial load ratings listed in this catalogue are based on ISO standards. The system establishes a common basis for calculating load ratings for all anti-friction bearings. It is based on the statistical life expectancy for rolling contact fatigue, and provides a reasonable estimate of service life under conditions of adequate lubrication, freedom from contamination and excessive misalignment. In practice, the service life of the bearing may be determined by factors other than the rolling contact fatigue. Generally, the term 'life' used in the Bearing Selection section of this catalogue refers to the statistical life of the bearing against rolling contact fatigue as calculated using ISO standards.

Selection for radial load is determined independently from the axial load. Determine the radial load, speed and minimum life required. Generally the shaft size has been predetermined. Selection of the bearing can be made using the following formula:

$Cr \geq P \times fn \times fL \times fd$.
Where Cr = radial dynamic rating.
P = calculated effective radial load.
fn = speed (rpm) factor.
fL = life (hours) factor.
fd = dynamic or service factor.

fn = $(rpm \times 0.03)^{0.3}$.
fL = $(L10\ hours/500)^{0.3}$.
L10 hours is the expected life in hours of 90% of similar bearings under similar operating conditions.

Note: The product fn x fL should not be less than 1.0.

Alternatively, bearing life may be calculated by the equation $L10 = [Cr/(P \times fd)]^{10/3}$, where:
L10 = expected life of 90% of similar bearings under similar operating conditions, in millions of revolutions.

When the equivalent radial load equals the Cr rating, multiplied by the service factor, the L10 life will be 1 million revolutions.

If high temperatures (above 100°C) are involved, please refer to notes on page7.

Refer to the next page for further notes.

BEARING LIFE REQUIREMENTS

Suggested lives and factors for specific operating conditions are shown below.

Operating conditions	Life factor (fL)	Life hours (L10)
8 hour daily working	3.0-4.0	20,000- 50,000
Continuous operation main drives, large electrical machinery, flywheels, mining	4.4-5.0	70,000-100,000
Continuous operation and an exceptionally high degree of reliability	5.0-6.0	100,000-200,000

We recommend that bearings are specified to provide an L10 life of at least 10,000 hours, except for bearings selected on the basis of static rating.

DYNAMIC FACTOR

The appropriate dynamic factor fd may be taken from the chart below.

Conditions	fd
Steady load or small fluctuations	1.0 - 1.3
Light shock	1.3 - 2.0
Heavy shock, vibration or reciprocation	2.0 - 3.5

LIFE ADJUSTMENT FACTORS FOR CRITICAL APPLICATIONS

The basic L10 life obtained by using the equations or tables in this catalogue are adequate for normal applications.

Bearings for most normal applications are specified using the L10 life as above. For reliabilty greater than 90%, replace L10 in the above equations with Lna where Lna = a1 x L10 and is given in the table below.

Reliability %	95	96	97	98	99
a1	0.62	0.53	0.44	0.33	0.21

MINIMUM RADIAL LOAD

The radial load must exceed a certain value in order to prevent the rollers skidding rather than rolling. Cooper bearings are able to operate at lower loads than other types of rolling element bearings. Minimum radial loads are generally Cr/65 for GR bearings and Cr/120 for EX bearings. Lower loads can be accommodated under certain conditions. Please refer to our technical department.

BASIC STATIC LOAD RATINGS (Cor)

The values of Cor given in this publication have been calculated in accordance with ISO standards. The basic static load rating is defined as that static (radial) load which corresponds to a contact stress of 4,000 MPa (580,000 psi) at the centre of the most heavily loaded roller/raceway contact and produces a permanent deformation of 0.0001 times the roller diameter.

Where rotation is very slow (less than 5 rpm) or intermittent, bearing size can be selected based on the static load carrying capacity. The requisite basic static load rating can be determined from:

Cor = So x P
where:
Cor = basic static radial load rating (kN)
P = effective bearing load (kN)
So = static safety factor

Bearing Static Safety Factors, So

Type of operation	Requirements for smooth running		
	Low	Normal	High
Vibration free	1	1.5	3
Normal	1	2	3.5
High shock loads	2.5	3	4

SELECTION FOR AXIAL LOAD

Selection for axial load is considered independently from the radial load. Determine the axial load applied to the bearing. Knowing the speed and desired shaft size, select a bearing using the following formula:

Ca> (fd_a x fdn x Pa) / fb
Where:
Ca = axial rating | **fd_a** = dynamic or service factor
Pa = calculated axial load
fdn = Velocity (dn) factor (See scale opposite)
fb = bearing factor (see scale opposite)

The dynamic or service factor fd_a may be 1 for peak overload periods and 1.1 to 1.2 for general running (depending on smoothness), where the load is accurately known. An allowance for any inaccuracies in the calculated loads must be made to ensure that the bearing axial capacity is not exceeded.

Retaining rings or recessed journals are required when Pa>0.5Ca for 01, 02 and 03 Series, if Pa> 0.25Ca for 01E and 02E Series bearings, and if Pa>0.2Ca for 100 Series bearings. Refer to our technical department.

If the axial load exceeds 40% of the radial load, please consult our technical department. The axial load capacity is decreased by 50% if the lubricant does not have extreme pressure (EP) additives.

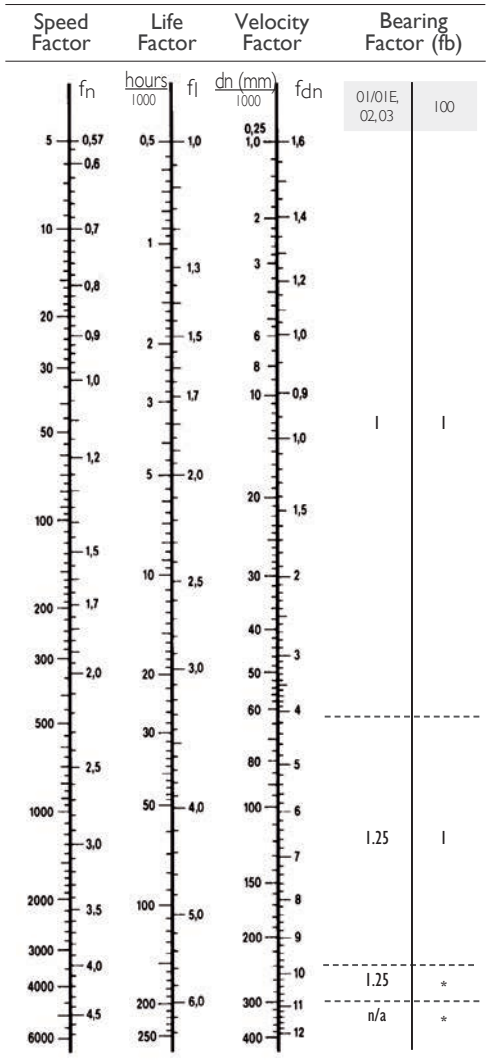
TEMPERATURE AND BEARING CLEARANCE

The normal temperature range for standard bearings is 0°C to 100°C. For temperatures outside this range, our technical department should be consulted as special attention may be required to materials, seals and lubrication.

The standard bearing clearance is usually suitable for temperatures up to 100°C provided that the difference between shaft and housing temperatures is not more than 40°C. For higher temperatures or greater temperature differentials, bearings of C3 or C5 clearance are offered.

Reduced (C2) clearance bearings are offered where appropriate (e.g. for reciprocating or vibratory applications).

Bearing dynamic capacity is decreased by increased clearance or operation over 150°C



Velocity factor f_{dn} applies only to axial loads on GR bearings.
dn (mm) = bearing bore (mm) x shaft speed (rpm)
* refer to technical department



SHAFT TOLERANCE

Journal diameter tolerance is generally h7.

For speeds over 150,000mm dn and all C2 clearance bearings the tolerance is h6.

For light loads and slow speeds wider tolerances up to h9 may be permissible. Please consult our technical department if a wider tolerance is required, or if it is required to mount a bearing on an existing shaft with a different tolerance to those specified above.

The tolerance on roundness and parallelism of the journal is IT6 in all cases.

Where the shaft is stepped so that the diameter of the shaft at the seals is different to the journal diameter, a wider tolerance (h9) is permissible for the shaft diameter at the seals.

The table below shows relevant tolerances for shaft diameters up to 600mm. The maximum surface roughness of the journal should not exceed 3.2µm Ra when diameter tolerance h7 applies, or 1.6µm Ra when tolerance h6 applies. The maximum surface roughness of the portion of the shaft under the seals is specified on pages 10 and 11.

TOLERANCES OF SHAFT DIAMETERS

Diameter (mm)	Over	-	50	80	120	180	250	315	400	500
	Up to and including	50	80	120	180	250	315	400	500	630
		Tolerance in µm								
Tolerance band (to BS 4500)	h6	+0	+0	+0	+0	+0	+0	+0	+0	+0
		-16	-19	-22	-25	-29	-32	-36	-40	-44
	h7	+0	+0	+0	+0	+0	+0	+0	+0	+0
		-25	-30	-35	-40	-46	-52	-57	-63	-70
	h9	+0	+0	+0	+0	+0	+0	+0	+0	+0
		-62	-74	-87	-100	-115	-130	-140	-155	-175
	IT6	16	19	22	25	29	32	36	40	44

SEALING SOLUTIONS

Efficient performance and long life of the roller bearing depend to a large extent upon the exclusion of foreign matter from the internal bearing surfaces. Grease, or oil, serves the dual purpose of lubricating these surfaces and protecting them from corrosion. Thus the seal must prevent dust, grit and moisture from entering the bearing and at the same time prevent grease or oil from escaping.

ALIGNMENT FEATURE

Cooper supplies various mounting options and for all, except the hanger mountings, the bearing is housed in a cartridge supported by the mounting unit. Cartridges have a spherical outer surface that fits into a conforming surface in the mounting unit (such as pedestal or flange) in the manner of a ball and socket joint.

Any shaft misalignment that may exist tends to move the cartridge, seal and bearing together, maintaining the seal on an axis parallel to the shaft. Standard pedestals and flanges are designed to allow up to 2½° misalignment between the shaft and housing, under constant or slowly changing alignment conditions, without compromising sealing.

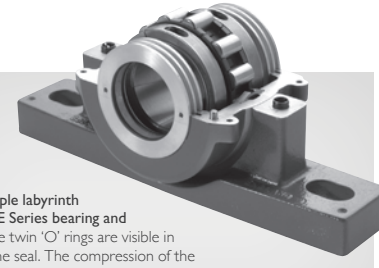
Compare this with the situation that occurs with a double row spherical bearing in a standard pedestal. If the pedestal is not accurately aligned with the shaft, contact between the seal and the shaft tends to be lost at one side, and the seal presses more heavily against the shaft at the other. In the worst case a gap may open, compromising the sealing, or the seal may bind on the shaft. Although felt seals are shown in the illustration, a similar situation occurs with labyrinth or lip seals.

SEAL TYPES

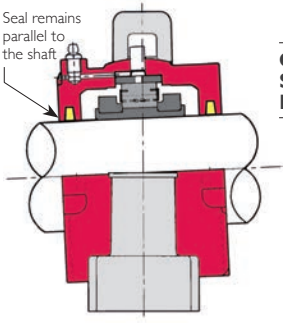
Cartridges for shaft sizes up to 300mm/12" are usually supplied with a general purpose felt seal. The felt groove will also accommodate high temperature packing seals, lipped seals or suitable blanking plates.

Triple labyrinth seals are often supplied as an alternative and are precision non-rubbing seals capable of high speed operation. Due to the aligning feature described above, extremely close tolerances can be maintained between the housing and the shaft. The result is an effective sealing element which is one of the best in the anti-friction bearing industry.

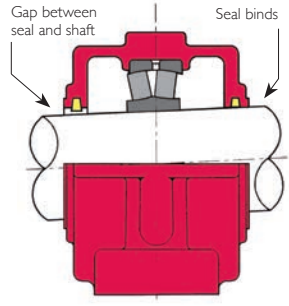
Cartridges for shaft sizes over 300mm/12" are supplied with grease groove seals as standard. Cooper offer a wide range of sealing options, the more common of which are illustrated overleaf. For special applications seals may be made from other materials and alternative special seals can be supplied to suit specific conditions.



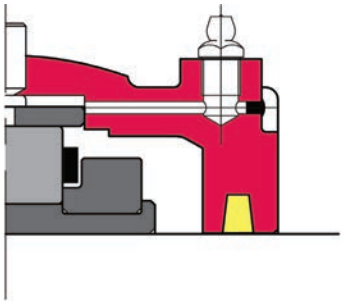
This picture illustrates an aluminium triple labyrinth seal on an 01E Series bearing and cartridge. The twin 'O' rings are visible in the bore of the seal. The compression of the 'O' rings causes the seal to rotate with the shaft, but the amount of compression is so designed that the shaft moves through the seal when axial expansion occurs in EX bearings.



COOPER SPLIT ROLLER BEARING



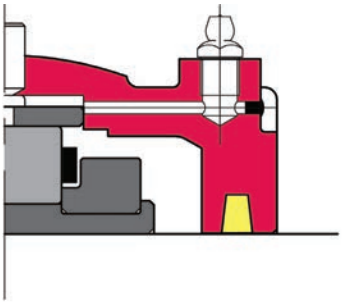
DOUBLE ROW SPHERICAL BEARING



FELT (F)

Standard in UK and Europe

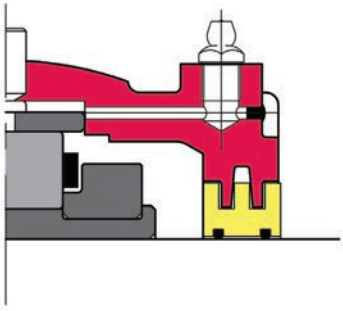
Temperature limits	-70°C to 100°C
Maximum speed	150000 dn(mm)
Shaft surface finish	1.6 µm Ra max.



HIGH TEMPERATURE PACKING (HTP)

A direct replacement for felt in high temperature applications.

Temperature limits	-70°C to 260°C
Maximum speed	150000 dn(mm)
Shaft surface finish	0.8 µm Ra max.

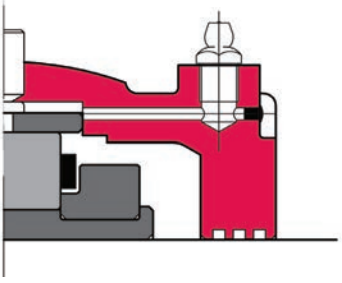


ALUMINUM TRIPLE LABYRINTH (ATL)

High temperature version (ATL HT)
Low temperature version (ATL LT)

Machined aluminium bodied triple labyrinth seal for high speed and general applications. ATL supplied as standard sealing arrangement in USA and Canada. ATL HT and ATL LT are fitted with O rings of different materials.

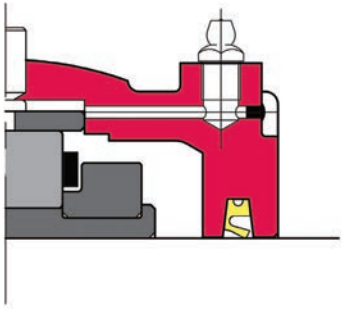
Temperature limits	ATL -20°C to 100°C ATL HT -20°C to 175°C ATL LT -60°C to 100°C
Maximum speed	Bearing maximum
Shaft surface finish	3.2 µm Ra max.



GREASE GROOVE (LAB)

Suitable for high or slow speed operations. Particularly successful on marine applications.

Temperature limits	Bearing maximum
Maximum speed	Bearing maximum
Shaft surface finish	3.2 µm Ra max.

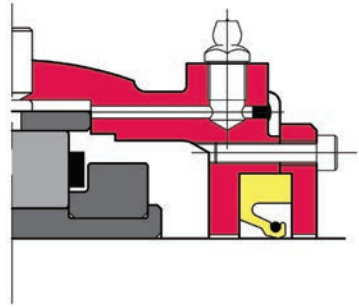


SYNTHETIC RUBBER SINGLE LIP (SRS)

High temperature version (SRS HT)
Low temperature version (SRS LT)

Suitable for wet but not submerged conditions. Can be used for improved lubricant retention by mounting lip inwards.

Temperature limits	-70°C to 260°C
Maximum speed	150000 dn(mm)
Shaft surface finish	0.8 µm Ra max.



SPRING-LOADED SINGLE LIP WITH RETAINING PLATE (SRSRP)

High pressure version (SRSRP 40M)

Suitable for severe splash or completely submerged conditions. The standard version is suitable for up to 2m of water. the high pressure version is suitable for up to 40m of water.

Temperature limits	-20°C to 100°C
Maximum speed	150000 dn(mm)
Shaft surface finish	0.4 µm Ra max.

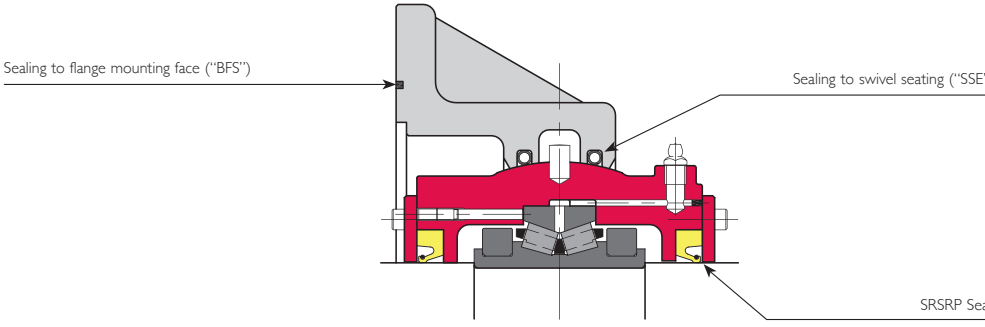
BULKHEAD SEALING

It is often found economical to combine a bearing and bulkhead seal into one unit. This reduces the number of individual units required, and prevents problems with shaft eccentricity sometimes encountered at the bulkhead seal when it is separated from the bearing.

Generally, a specially adapted flange mounting is used and the bearing is fitted with SRSRP seals.

Generally, the flange incorporates additional sealing to the cartridge seating, and may include sealing on the mounting face ('backface').

Where the shaft surface speed is too high for standard SRSRP seals, an alternative high speed version is available, or alternative seal types can be used if a moderate leakage of water is permitted through the bearing in an emergency.



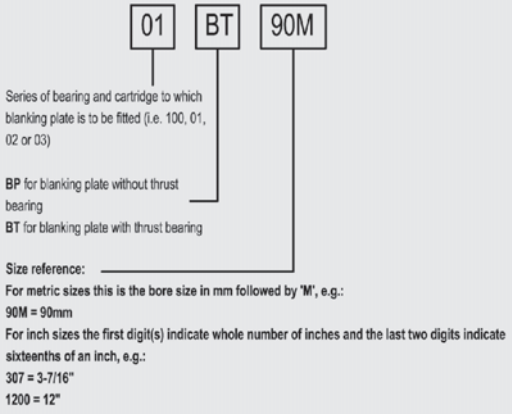
BLANKING PLATES

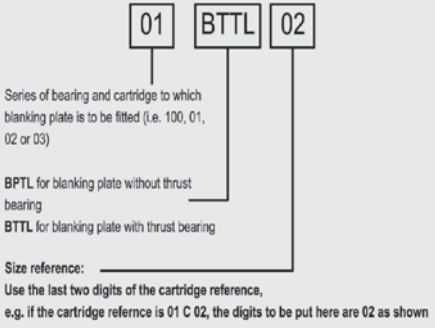
Where shafts terminate at the bearings, 'blanking plates' may be used to close off the cartridge ends. Blanking plates are available to suit standard single groove and TL cartridges.

On sizes up to 90mm/3½" blanking plates accommodating thrust bearings can be used for axial location of shafts.

A typical application is on the shafts of belt conveyors.

For blanking plates with thrust bearings, the shaft ends must be machined smooth and square. Upon assembly, there must be slight clearance between the shaft ends and the thrust bearings (i.e. slight end float), without the possibility of preload. Blanking plates with thrust bearings are limited to a maximum speed of 20,000mm dn (calculated using the shaft size, not the bore of the thrust bearing) and to shaft location only (i.e. only nominal axial loading).





ORDERING

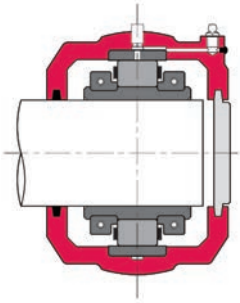
For blanking plates to suit single groove cartridges, the part code is made up as follows:

For blanking plates to suit TL cartridges, the part code is made up as follows:

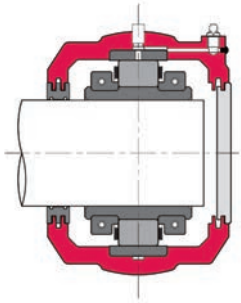
BT and BTTL blanking plates are only regarded as standard items for 01 and 02 series cartridges up to 90mm/3½" bore size.

For all blanking plates, if the cartridge end bore is machined to suit a shaft diameter that is different to the bore of the bearing, refer to Cooper for the relevant part code.

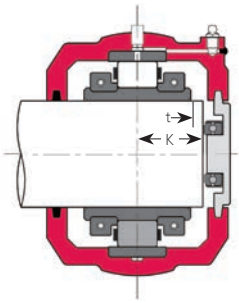
BP



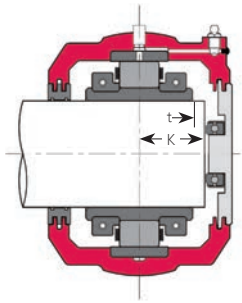
BPTL



BT



BTTL



DIMENSIONS

Dimensions for shaft terminations, when using blanking plates with thrust bearings, are shown below:

Shaft diameter d		01 Series K	01 Series t	02 Series K	02 Series t
35mm	1 3/16"	27	2	-	-
	1¼"				
40mm	1 7/16"				
	1½"				
45mm	1 11/16"	29	1	-	-
	1¾"				
50mm	1 15/16"	29	1	35	1
	2"				
55mm		30	2	-	-
60mm	2 3/16"	30	2	38	2
	2¼"				
65mm	2 7/16"				
	2½"				
70mm	2 11/16"	35	4	41	0
	2¾"				
75mm	2 15/16"				
	3"				
80mm	3 3/16"	40	4	48	3
85mm	3¼"				
90mm	3 7/16"				
	3½"				

INSTALLATION AND ASSEMBLY

The following is a typical assembly sequence of a pedestal or flange mounted bearing and is included to allow engineers using this catalogue to understand the assembly process of the Cooper bearing and to allow them to produce relevant documentation for their own machines, which may require this information. A full set of assembly instructions is usually packaged with each standard bearing, for use by the fitters. If non-standard bearings are to be used, and/or a different assembly sequence is required for the application, specific assembly instructions can be supplied on request.

The illustrations use a pedestal mounted unit as an example.

PRELIMINARY NOTES

Bearings must be disassembled before assembling into position.

Unwrap the bearing parts, remove the outer race halves (if supplied assembled around other parts), and separate the halves of the cage (if required). Various cage jointing methods are used depending on size and series of bearing. Undo the clamping ring screws and remove the clamping rings from the inner race.

Remove the preservative from all surfaces of all the parts.

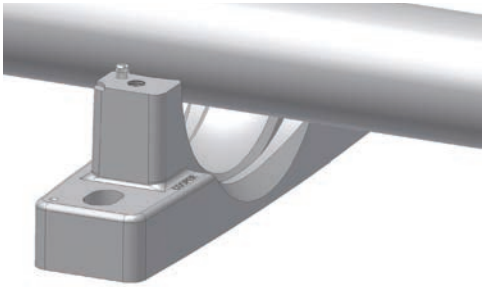
All bearing and housing components (with the exception of pressed steel, die cast and plastic cages) are marked with matching numbers or letters on each half. Ensure that the match marks on the halves are the same and are placed together on each component when the bearing is assembled.

Even though cage halves are not necessarily match-marked, they must not be mixed, as the rollers are graded into sets.

Complete roller bearings are interchangeable between similar Cooper cartridges. Individual parts should not be interchanged. Cartridges are interchangeable between standard outer housings provided that standard clearances are specified.

STEP 1 – HOUSING BASE

Place the pedestal base or flange lower half into position. If the precise location of the housing is predetermined it may be bolted into position. Generally, pedestal bases may require slight movement at a later stage in order to accurately position the shaft.



Note: The pedestal base is not shown in most of the illustrations that follow, for clarity of other details.

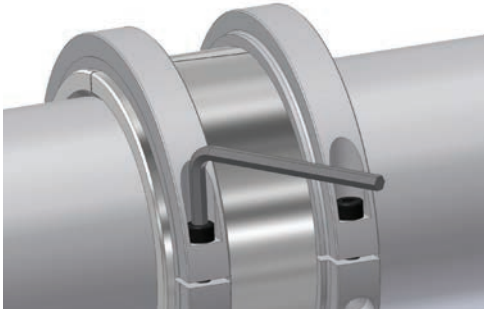
STEP 2 – INNER RACE

Lightly oil the shaft with thin machine oil, then remove the excess with a clean wiper. Place the inner race at the correct position on the cleaned shaft. Soft packing on the joint faces, or feeler gauges, should be used to ensure that the joint gaps are approximately equal. Inner races of expansion bearings are usually set centrally with the outer race, but in cases of significant axial expansion there may be a deliberate offset. (This is usually up to a maximum of 10% of the roller length, but may be more in the case of special types of bearing).



STEP 3 – CLAMPING RINGS

Fit the clamping rings with joints at approximately 90° to the inner race joints (45° in the case of large bearings with 4-part clamping rings). Progressively tighten all clamping ring screws.



Tap down each half of the inner race and clamping rings all around the shaft using a soft-faced hammer, or insert a hardwood block between a steel hammer and the bearing parts. Retighten the clamping ring screws. Repeat until screws remain fully tight.



Check that there are approximately equal gaps at both joints of the inner race.

Check that there are approximately equal joints at both (or all 4) joints of each clamping ring.

STEP 4 – CAGE AND ROLLERS

Coat the bore of the cage and roller assembly with grease and lightly cover the inner race assembly (fitted to the shaft) all over with grease for protection.

Assemble the cage (complete with rollers) around the inner race. The two halves of the cage are fixed together by various means depending on size and series of bearing. (Further details are to be found in the assembly leaflets supplied with the bearing, or details of the joint of a particular size and series of cage can be supplied on request).



STEP 5 – CARTRIDGE AND OUTER RACE SUB-ASSEMBLY

Place the half outer race with the lubrication hole in the top half of the cartridge and the second half outer race into the lower half of the cartridge. Ensure that the ends of the outer race project from the cartridge joint face by equal amounts.
All lipped outer races must be clamped axially.
Side screws 'A' are fitted to all GR cartridges.
Side rods 'B' are fitted to some sizes only.

Radial screws 'C' and washers are fitted to both EX and GR cartridges of larger sizes only.



EX CARTRIDGES:
Just enter radial screws 'C' (where fitted, complete with washers) into the corresponding outer race holes, but do not tighten. Place the two half cartridges together, complete with half outer races, and fully tighten the joint screws 'D'. Fully tighten the radial screws 'C'.

CARTRIDGES FOR LIPPED OUTER RACES (GR AND SPECIAL TYPES):
Just enter radial screws 'C' (where fitted, complete with washers) into the corresponding outer race holes, but do not tighten. Place the two half cartridges together, complete with outer races, and fully tighten the joint screws 'D'. Enter the side rods 'B' (where fitted) and side screws 'A'. Progressively and fully tighten the side screws 'A' and radial screws 'C' (where fitted).

ALL TYPES:
Inject grease to fill the grease passages. Remove joint screws 'D' and separate cartridge halves, taking care that the outer race halves do not fall out of position in their respective half-cartridges.

STEP 6 – SEALS

If the unit is to be fitted with aluminium triple labyrinth (ATL) seals, fit them onto the shaft as follows:

Separate the ATL seal halves by driving out the two jointing pins. Lubricate the 'O' rings in the bore with grease. Reassemble on the shaft by compressing the 'O' rings of both halves sufficiently to allow the jointing pins to be reinserted, and reinsert the pins. Note: ATL seals are able to slide along the shaft once assembled



Felt seals should be soaked in oil before fitting into the cartridge end bores. Most types of seal other than triple labyrinth seals and SRSRP seals are fitted into the cartridge end bores before assembling the cartridge into position.

STEP 7 – LUBRICATION

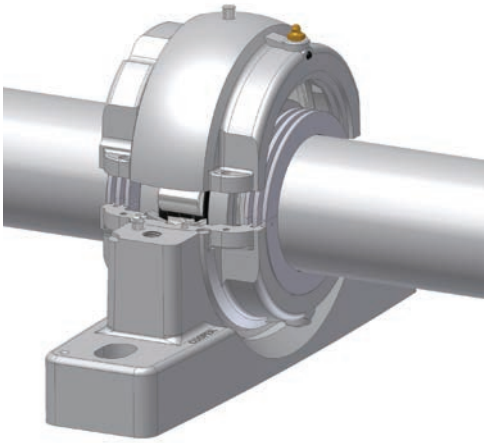
Coat the inside of the cartridge, cage and rollers and all seals with grease (See page 18 for correct quantity). For speeds over 150,000mm dn (shaft diameter in mm multiplied by shaft speed in rpm) approximately 40% of the grease used should be applied to the bearing parts and the remainder applied to the inside of the cartridge. This is to avoid excessive churning of grease when running at high speed.

STEP 8 – CARTRIDGE

Lubricate the spherical seating of the bottom half of the cartridge with grease.

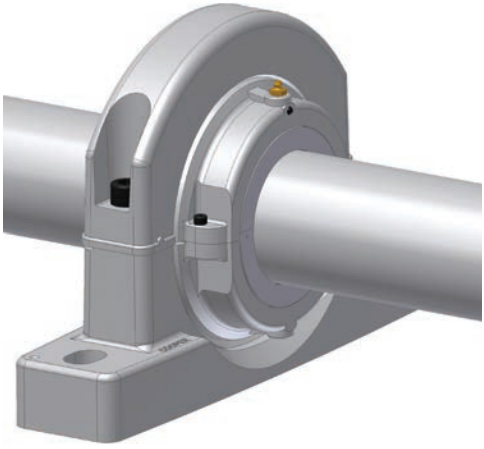
Place the bottom half of the cartridge on top of the bearing and rotate 180° into the pedestal base or half-flange.

Place the top half of the cartridge on top of the bottom half, close the cartridge and fully tighten the joint screws. Lubricate the spherical seating with grease.



STEP 9 – HOUSING

If not already done, tighten the bolts fixing the pedestal base or lower flange half into position. Place the pedestal cap or flange top half into position. If it is safe to do so, running the shaft for a time without the outer housing joint screws fully tightened will help the bearing to accurately align. Fully tighten the joint screws.





GREASE QUANTITIES FOR INITIAL LUBRICATION

The quantity of grease required on initial assembly is dependent upon operating speed and temperature.

If the operating temperature is below 80°C the quantity of grease may be determined directly according to bearing reference and operating speed from the following table.

If the operating temperature is above 80°C, a 25% pack of grease should be used regardless of speed (refer to the right hand column of the table). With a 'full pack' of grease the space within the cartridge (i.e. surrounding the bearing components) in the assembled unit is completely filled with grease.

The table assumes normal density grease (about 0.85g/cm3).

100 SERIES

Group Reference	Speed (rpm) up to	Grease (full pack) (kg)	Speed (rpm) from	to	Grease (75% full pack) (kg)	Speed (rpm) from	to	Grease (50% full pack) (kg)	Speed (rpm) from	to	Grease (33% full pack) (kg)	Speed (rpm) over	Grease (25% full pack) (kg)
100 300	656	0.15	656	1312	0.11	1312	1969	0.08	1969	2625	0.05	2625	0.04
100 307	573	0.22	573	1145	0.17	1145	1718	0.11	1718	2291	0.07	2291	0.06
100 400	492	0.36	492	984	0.27	984	1476	0.18	1476	1969	0.12	1969	0.09
100 408	437	0.36	437	875	0.27	875	1312	0.18	1312	1750	0.12	1750	0.09
100 500	394	0.49	394	787	0.37	787	1181	0.25	1181	1575	0.16	1575	0.12
100 508	358	0.64	358	716	0.48	716	1074	0.32	1074	1432	0.21	1432	0.16
100 600	328	1.02	328	656	0.77	656	984	0.51	984	1312	0.34	1312	0.26
100 800	246	0.90	246	492	0.68	492	738	0.45	738	984	0.30	984	0.23
100 808	232	1.35	232	463	1.01	463	695	0.68	695	926	0.45	926	0.34

01/01E SERIES

Group Reference	Speed (rpm) up to	Grease (full pack) (kg)	Speed (rpm) from	to	Grease (75% full pack) (kg)	Speed (rpm) from	to	Grease (50% full pack) (kg)	Speed (rpm) from	to	Grease (33% full pack) (kg)	Speed (rpm) over	Grease (25% full pack) (kg)
01 108	1312	0.06	1312	2625	0.05	2625	3937	0.03	3937	5249	0.02	5249	0.02
01E 200	984	0.09	984	1969	0.07	1969	2953	0.05	2953	3937	0.03	3937	0.02
01E 208	787	0.15	787	1575	0.11	1575	2362	0.08	2362	3150	0.05	3150	0.04
01E 300	656	0.18	656	1312	0.14	1312	1969	0.09	1969	2625	0.06	2625	0.05
01E 308	562	0.30	562	1125	0.23	1125	1687	0.15	1687	2250	0.10	2250	0.08
01E 400	492	0.36	492	984	0.27	984	1476	0.18	1476	1969	0.12	1969	0.09
01 408	437	0.51	437	875	0.38	875	1312	0.26	1312	1750	0.17	1750	0.13
01 500	394	0.60	394	787	0.45	787	1181	0.30	1181	1575	0.20	1575	0.15
01 508	358	0.78	358	716	0.59	716	1074	0.39	1074	1432	0.26	1432	0.20
01 600	328	0.90	328	656	0.68	656	984	0.45	984	1312	0.30	1312	0.23
01E 608	303	1.00	303	606	0.75	606	909	0.50	909	1211	0.33	1211	0.25
01E 700	281	1.20	281	562	0.90	562	844	0.60	844	1125	0.40	1125	0.30
01E 800	246	1.40	246	492	1.05	492	738	0.70	738	984	0.46	984	0.35
01E 900	219	1.40	219	437	1.05	437	656	0.70	656	875	0.46	875	0.35
01E 1000	197	2.00	197	394	1.50	394	591	1.00	591	787	0.66	787	0.50
01E 1100	179	2.00	179	358	1.50	358	537	1.00	537	716	0.66	716	0.50
01E 1200	164	2.00	164	328	1.50	328	492	1.00	492	656	0.66	656	0.50
01 1300	151	2.76	151	303	2.07	303	454	1.38	454	606	0.91	606	0.69
01 1400	141	3.00	141	281	2.25	281	422	1.50	422	562	0.99	562	0.75
01 1500	131	3.00	131	262	2.25	262	394	1.50	394	525	0.99	525	0.75
01 1600	123	3.60	123	246	2.70	246	369	1.80	369	492	1.19	492	0.90
01 1700	116	4.20	116	232	3.15	232	347	2.10	347	463	1.39	463	1.05
01 1800	109	4.20	109	219	3.15	219	328	2.10	328	437	1.39	437	1.05
01 1900	104	4.80	104	207	3.60	207	311	2.40	311	414	1.58	414	1.20
01 2000	98	4.80	98	197	3.60	197	295	2.40	295	394	1.58	394	1.20
01 2100	94	5.40	94	187	4.05	187	281	2.70	281	375	1.78	375	1.35
01 2200	89	5.40	89	179	4.05	179	268	2.70	268	358	1.78	358	1.35
01 2300	86	6.00	86	171	4.50	171	257	3.00	257	342	1.98	342	1.50
01 2400	82	6.00	82	164	4.50	164	246	3.00	246	328	1.98	328	1.50

02/02E SERIES

Group Reference	Speed (rpm) up to	Grease (full pack) (kg)	Speed (rpm) from	to	Grease (75% full pack) (kg)	Speed (rpm) from	to	Grease (50% full pack) (kg)	Speed (rpm) from	to	Grease (33% full pack) (kg)	Speed (rpm) over	Grease (25% full pack) (kg)
02 200	984	0.15	984	1969	0.11	1969	2953	0.08	2953	3937	0.05	3937	0.04
02 208	787	0.21	787	1575	0.16	1575	2362	0.11	2362	3150	0.07	3150	0.05
02 300	656	0.30	656	1312	0.23	1312	1969	0.15	1969	2625	0.10	2625	0.08
02 308	562	0.45	562	1125	0.34	1125	1687	0.23	1687	2250	0.15	2250	0.11
02 400	492	0.60	492	984	0.45	984	1476	0.30	1476	1969	0.20	1969	0.15
02 408	437	0.90	437	875	0.68	875	1312	0.45	1312	1750	0.30	1750	0.23
02 500	394	1.20	394	787	0.90	787	1181	0.60	1181	1575	0.40	1575	0.30
02 508	358	1.40	358	716	1.05	716	1074	0.70	1074	1432	0.46	1432	0.35
02 600	328	1.40	328	656	1.05	656	984	0.70	984	1312	0.46	1312	0.35
02E 608	303	1.40	303	606	1.05	606	909	0.70	909	1211	0.46	1211	0.35
02E 700	303	2.00	303	606	1.50	606	909	1.00	909	1211	0.66	1211	0.50
02E 800	246	2.70	246	492	2.03	492	738	1.35	738	984	0.89	984	0.68
02E 900	219	3.60	219	437	2.70	437	656	1.80	656	875	1.19	875	0.90
02E 1000	197	4.20	197	394	3.15	394	591	2.10	591	787	1.39	787	1.05
02E 1100	179	4.80	179	358	3.60	358	537	2.40	537	716	1.58	716	1.20
02E 1200	164	5.40	164	328	4.05	328	492	2.70	492	656	1.78	656	1.35
02 1300	151	6.60	151	303	4.95	303	454	3.30	454	606	2.18	606	1.65
02 1400	141	7.20	141	281	5.40	281	422	3.60	422	562	2.38	562	1.80
02 1500	131	7.80	131	262	5.85	262	394	3.90	394	525	2.57	525	1.95
02 1600	123	9.00	123	246	6.75	246	369	4.50	369	492	2.97	492	2.25
02 1700	116	9.60	116	232	7.20	232	347	4.80	347	463	3.17	463	2.40
02 1800	109	9.60	109	219	7.20	219	328	4.80	328	437	3.17	437	2.40
02 1900	104	10.20	104	207	7.65	207	311	5.10	311	414	3.37	414	2.55
02 2000	98	10.80	98	197	8.10	197	295	5.40	295	394	3.56	394	2.70
02 2100	94	11.40	94	187	8.55	187	281	5.70	281	375	3.76	375	2.85
02 2200	89	11.40	89	179	8.55	179	268	5.70	268	358	3.76	358	2.85
02 2300	86	12.60	86	171	9.45	171	257	6.30	257	342	4.16	342	3.15
02 2400	82	12.60	82	164	9.45	164	246	6.30	246	328	4.16	328	3.15

03 SERIES

Group Reference	Speed (rpm) up to	Grease (full pack) (kg)	Speed (rpm) from	to	Grease (75% full pack) (kg)	Speed (rpm) from	to	Grease (50% full pack) (kg)	Speed (rpm) from	to	Grease (33% full pack) (kg)	Speed (rpm) over	Grease (25% full pack) (kg)
03 400	492	1.20	492	984	0.90	984	1476	0.60	1476	1969	0.40	1969	0.30
03 408	437	1.40	437	875	1.05	875	1312	0.70	1312	1750	0.46	1750	0.35
03 500	394	1.40	394	787	1.05	787	1181	0.70	1181	1575	0.46	1575	0.35
03 508	358	2.00	358	716	1.50	716	1074	1.00	1074	1432	0.66	1432	0.50
03 600	328	2.70	328	656	2.03	656	984	1.35	984	1312	0.89	1312	0.68
03 608	303	3.60	303	606	2.70	606	909	1.80	909	1211	1.19	1211	0.90
03 700	281	4.20	281	562	3.15	562	844	2.10	844	1125	1.39	1125	1.05
03 800	246	5.40	246	492	4.05	492	738	2.70	738	984	1.78	984	1.35
03 900	219	6.90	219	437	5.18	437	656	3.45	656	875	2.28	875	1.73
03 1000	197	8.10	197	394	6.08	394	591	4.05	591	787	2.67	787	2.03
03E 1100	179	10.00	179	358	7.50	358	537	5.00	537	716	3.30	716	2.50
03 1200	164	11.00	164	328	8.25	328	492	5.50	492	656	3.63	656	2.75
03 1300	151	12.00	151	303	9.00	303	454	6.00	454	606	3.96	606	3.00
03E 1400	141	15.00	141	281	11.25	281	422	7.50	422	562	4.95	562	3.75
03 1500	131	16.20	131	262	12.15	262	394	8.10	394	525	5.35	525	4.05
03E 1700	116	21.60	116	232	16.20	232	347	10.80	347	463	7.13	463	5.40
03E 1800	109	24.60	109	219	18.45	219	328	12.30	328	437	8.12	437	6.15
03 2000	98	30.00	98	197	22.50	197	295	15.00	295	394	9.90	394	7.50
03E 2200	89	36.00	89	179	27.00	179	268	18.00	268	358	11.88	358	9.00
03E 2300	86	38.40	86	171	28.80	171	257	19.20	257	342	12.67	342	9.60

SCREW TIGHTENING TORQUES

Screw size	Tightening torques (Nm)				Key size A/F	
	Clamping ring screw (1)	Pedestal or cartridge joint screw	Cartridge radial screw	Side scew	Socket head cap screw (2)	Side screw
M3	2.0	-	-	-	2.5	-
M4	4.5	3.5	-	2.0	3	2
M5	8.5	6.5	-	-	4	-
M6	15	11	-	7.8	5	3
M8	35	26.0	-	-	6	-
M10	70.0	52.5	35.0	30.0	8	5
M12	120	90	60.0	-	10	-
M16	300	225	150	125	14	8
M20	560	420	-	-	17	-
M24	950	712	-	-	19	-

1) For vertical shaft or high thrust applications this may be increased by up to 20%
2) All screws except side screw

100 SERIES

Group Reference	Clamping ring screw	Cartridge joint screw	Cartridge radial screw	Side screw	Pedestal joint screw	Flange joint screw
100 300	M3	M4	-	M4	M10	M10
100 307	M4	M4	-	M4	M12	M12
100 400	M4	M5	-	M4	M16	M12
100 408	M5	M6	-	M4	M16	M16
100 500	M6	M6	-	M6	M20	M16
100 508	M6	M6	-	M6	M20	M20
100 600	M6	M8	-	M6	M20	M20
100 800	M8	M8	-	M6	M16	M20
100 808	M8	M8	M6	M6	M16	M24

01/01E SERIES

Group Reference	Clamping ring screw	Cartridge joint screw	Cartridge radial screw	Side screw	Pedestal joint screw	Flange joint screw
01 108	M4	M4	-	M4	M8	M8
01E 200	M4	M4	-	M4	M8	M8
01E 208	M4	M4	-	M4	M10	M10
01E 300	M4	M4	-	M4	M12	M12
01E 308	M5	M5	-	M4	M16	M12
01E 400	M6	M6	-	M4	M16	M16
01 408	M6	M6	-	M6	M20	M16
01 500	M6	M6	-	M6	M20	M20
01 508	M8	M8	-	M6	M20	M20
01 600	M8	M8	-	M6	M20	M20
01E 608	M8	M8	-	M6	M16	M20
01E 700	M8	M8	-	M6	M16	M20
01E 800	M8	M8	M10	M6	M16	M24
01E 900	M10	M10	M10	M6	M16	M24
01E 1000	M10	M10	M10	M6	M20	M24
01E 1100	M10	M10	M10	M10	M20	M24
01E 1200	M10	M10	M10	M10	M20	M24
01 1300	M12	M12	M10	M10	M20	M24
01 1400	M12	M12	M10	M10	M20	M24
01 1500	M12	M12	M10	M10	M20	M24
01 1600	M12	M12	M10	M10	M20	M24
01 1700	M12	M12	M12	M10	M20	-
01 1800	M12	M12	M12	M10	M20	-
01 1900	M12	M12	M12	M10	M20	-
01 2000	M16	M16	M12	M10	M20	-
01 2100	M16	M16	M12	M10	M20	-
01 2200	M16	M16	M12	M10	M20	-
01 2300	M16	M16	M12	M10	M20	-
01 2400	M16	M16	M12	M10	M20	-

02/02E SERIES

Group Reference	Clamping ring screw	Cartridge joint screw	Cartridge radial screw	Side screw	Pedestal joint screw	Flange joint screw
02 200	M5	M5	-	M4	M10	M10
02 208	M5	M5	-	M4	M12	M12
02 300	M6	M6	-	M4	M16	M12
02 308	M6	M6	-	M4	M16	M16
02 400	M6	M6	-	M4	M20	M16
02 408	M8	M8	-	M6	M20	M20
02 500	M8	M8	-	M6	M20	M20
02 508	M8	M8	-	M6	M20	M24
02 600	M8	M8	-	M6	M20	M24
02E 608	M10	M10	-	M6	M20	M24
02E 700	M10	M10	M10	M6	M20	M24
02E 800	M12	M12	M10	M6	M20	M24
02E 900	M12	M12	M10	M6	M20	M24
02E 1000	M12	M12	M10	M10	M20	M24
02E 1100	M16	M16	M10	M10	M20	M24
02E 1200	M16	M16	M10	M10	M20	M24
02 1300	M16	M16	M10	M10	M20	M24
02 1400	M16	M16	M12	M10	M20	-
02 1500	M16	M16	M12	M10	M20	-
02 1600	M16	M16	M12	M10	M20	-
02 1700	M16	M16	M12	M10	M20	-
02 1800	M16	M16	M12	M10	M20	-
02 1900	M20	M20	M12	M10	M24	-
02 2000	M20	M20	M12	M10	M24	-
02 2100	M20	M20	M12	M10	M24	-
02 2200	M20	M20	M12	M10	M24	-
02 2300	M20	M20	M12	M10	M24	-
02 2400	M20	M20	M12	M10	M24	-

03 SERIES

Group Reference	Clamping ring screw	Cartridge joint screw	Cartridge radial screw	Side screw	Pedestal joint screw
03 400	M10	M10	-	M6	M16
03 408	M10	M10	M10	M6	M16
03 500	M10	M10	M10	M6	M16
03 508	M10	M10	M10	M10	M20
03 600	M10	M10	M10	M10	M20
03 608	M12	M12	M12	M10	M20
03 700	M12	M12	M12	M10	M20
03 800	M12	M12	M12	M10	M24
03 900	M16	M16	M12	M10	M20
03 1000	M16	M16	M12	M10	M20
03E 1100	M20	M20	M12	M10	M20
03 1200	M20	M20	M12	M10	M20
03 1300	M20	M20	M12	M10	M24
03E 1400	M24	M20	M12	M16	M24
03 1500	M24	M20	M12	M10	M24
03E 1700	M24	M20	M12	M16	M24
03E 1800	M24	M20	M12	M16	M24
03 2000	M24	M20	M16	M10	M24
03 2100	M24	M20	M16	M10	M24
03E 2200	M24	M20	M12	M16	M24
03E 2300	M24	M20	M12	M16	M24

100 SERIES

Group Reference	Part Frequencies (per shaft rev.) Cage	Roller	Outer	Inner	Roller details PCD (mm)	No.	Diameter (mm)
100 300	0.448	4.723	8.953	11.047	95.50	20	10.00
100 307	0.446	4.592	8.924	11.076	111.50	20	12.00
100 400	0.446	4.553	8.915	11.085	129.00	20	14.00
100 408	0.442	4.251	8.840	11.160	146.50	20	17.00
100 500	0.447	4.627	8.932	11.068	163.46	20	17.46
100 508	0.447	4.654	8.938	11.062	179.33	20	19.05
100 600	0.443	4.300	8.852	11.148	193.68	20	22.23
100 800	0.462	6.541	12.936	15.064	250.00	28	19.00
100 808	0.451	5.086	9.929	12.071	267.00	22	26.00

01/01E SERIES

Group Reference	Part Frequencies (per shaft rev.) Cage	Roller	Outer	Inner	Roller details PCD (mm)	No.	Diameter (mm)
01 108	0.405	2.538	4.051	5.949	62.71	10	11.91
01E 200	0.415	2.857	4.980	7.020	76.50	12	13.00
01E 208	0.417	2.934	5.840	8.160	90.50	14	15.00
01E 300	0.420	3.053	5.883	8.117	106.50	14	17.00
01E 308	0.423	3.187	6.774	9.226	124.00	16	19.00
01E 400	0.422	3.138	6.756	9.244	141.50	16	22.00
01 408	0.430	3.501	6.880	9.120	158.75	16	22.23
01 500	0.432	3.599	6.909	9.091	174.63	16	23.81
01 508	0.433	3.683	6.933	9.067	190.50	16	25.40
01 600	0.438	3.938	7.875	10.125	203.20	18	25.40
01E 608	0.432	3.632	7.784	10.216	222.00	18	30.00
01E 700	0.440	4.092	8.796	11.204	232.50	20	28.00
01E 800	0.442	4.246	9.722	12.278	258.25	22	30.00
01E 900	0.448	4.727	10.745	13.255	286.75	24	30.00
01E 1000	0.450	4.911	11.690	14.310	317.50	26	32.00
01E 1100	0.449	4.856	11.675	14.325	343.50	26	35.00
01E 1200	0.453	5.246	12.677	15.323	370.50	28	35.00
01 1300	0.458	5.910	11.908	14.092	396.88	26	33.34
01 1400	0.461	6.294	12.895	15.105	422.28	28	33.34
01 1500	0.461	6.416	12.915	15.085	450.85	28	34.93
01 1600	0.463	6.782	13.900	16.100	476.25	30	34.93
01 1700	0.465	7.147	14.886	17.114	501.65	32	34.93
01 1800	0.467	7.512	15.873	18.127	527.05	34	34.93
01 1900	0.467	7.576	14.949	17.051	555.63	32	36.51
01 2000	0.469	7.925	15.932	18.068	581.03	34	36.51
01 2100	0.470	8.362	16.927	19.073	612.78	36	36.51
01 2200	0.471	8.711	17.913	20.087	638.18	38	36.51
01 2300	0.471	8.721	17.914	20.086	666.75	38	38.10
01 2400	0.472	9.056	18.899	21.101	692.15	40	38.10

02/02E SERIES

Group Reference	Part Frequencies (per shaft rev.) Cage	Roller	Outer	Inner	Roller details PCD (mm)	No.	Diameter (mm)
02 200	0.402	2.452	4.020	5.980	80.96	10	15.88
02 208	0.411	2.730	4.936	7.064	98.43	12	17.46
02 300	0.411	2.719	4.932	7.068	115.89	12	20.64
02 308	0.417	2.917	5.833	8.167	133.35	14	22.23
02 400	0.417	2.917	5.833	8.167	152.40	14	25.40
02 408	0.417	2.917	5.833	8.167	171.45	14	28.58
02 500	0.417	2.917	5.833	8.167	190.50	14	31.75
02 508	0.419	3.014	5.869	8.131	206.38	14	33.34
02 600	0.421	3.103	6.743	9.257	222.25	16	34.93
02E 608	0.421	3.092	6.739	9.261	241.00	16	38.00
02E 700	0.423	3.173	6.769	9.231	260.00	16	40.00
02E 800	0.421	3.082	6.735	9.265	284.50	16	45.00
02E 900	0.428	3.423	7.712	10.288	314.50	18	45.00
02E 1000	0.427	3.367	6.837	9.163	344.00	16	50.00
02E 1100	0.433	3.668	7.795	10.205	373.50	18	50.00
02E 1200	0.438	3.953	8.755	11.245	401.50	20	50.00
02 1300	0.443	4.297	8.852	11.148	428.63	20	49.21
02 1400	0.443	4.337	8.862	11.138	460.38	20	52.39
02 1500	0.446	4.552	9.806	12.194	482.60	22	52.39
02 1600	0.447	4.682	9.839	12.161	511.18	22	53.98
02 1700	0.449	4.806	9.868	12.132	539.75	22	55.56
02 1800	0.451	5.008	10.814	13.186	561.98	24	55.56
02 1900	0.453	5.267	11.777	14.223	590.55	26	55.56
02 2000	0.455	5.469	12.731	15.269	612.78	28	55.56
02 2100	0.453	5.322	11.789	14.211	647.70	26	60.33
02 2200	0.455	5.561	12.751	15.249	676.28	28	60.33
02 2300	0.461	6.432	13.841	16.159	698.50	30	53.98
02 2400	0.458	5.958	13.750	16.250	723.90	30	60.33

03 SERIES

Group Reference	Part Frequencies (per shaft rev.) Cage	Roller	Outer	Inner	Roller details PCD (mm)	No.	Diameter (mm)
03 400	0.384	2.038	3.839	6.161	177.80	10	41.28
03 408	0.392	2.199	3.917	6.083	190.50	10	41.28
03 500	0.398	2.360	4.781	7.219	203.20	12	41.28
03 508	0.393	2.226	4.714	7.286	222.25	12	47.63
03 600	0.395	2.270	4.737	7.263	241.30	12	50.80
03 608	0.409	2.642	5.720	8.280	260.35	14	47.63
03 700	0.411	2.717	5.753	8.247	276.23	14	49.21
03 800	0.413	2.796	5.786	8.214	311.15	14	53.98
03 900	0.414	2.808	4.964	7.036	349.25	12	60.33
03 1000	0.418	2.971	5.853	8.147	368.30	14	60.33
03E 1100	0.425	3.240	6.794	9.206	400.05	16	60.33
03 1200	0.426	3.326	6.824	9.176	431.80	16	63.50
03 1300	0.423	3.184	5.927	8.073	476.20	14	73.03
03E 1400	0.428	3.405	6.850	9.150	485.78	16	69.85
03 1500	0.429	3.429	6.857	9.143	533.40	16	76.20
03E 1700	0.435	3.759	8.693	11.307	566.00	20	74.00
03E 1800	0.433	3.683	7.800	10.200	600.00	18	80.00
03 1900	0.432	3.598	6.909	9.091	628.65	16	85.73
03 2000	0.437	3.900	7.864	10.136	679.45	18	85.73
03E 2200	0.440	4.107	8.800	11.200	714.38	20	85.73
03E 2300	0.442	4.244	9.722	12.278	740.00	22	86.00

100 SERIES

Group Reference	Shaft Diameter d		Bearing Ratings Cr (kN)	Cor (kN)	Ca (kN)	Max. Speed (rpm)
100 300	75mm	2 15/16" 3"	91	128	7.0	4125
100 307	85mm	3 7/16"	142	209	12.3	3600
100 400	100mm	3 15/16" 4"	191	288	18.3	3090
100 408	110mm 115mm	4 7/16" 4 1/2"	279	426	22.2	2750
100 500	120mm 125mm 130mm	4 15/16" 5"	280	433	23.8	2480
100 508	140mm	5 7/16" 5 1/2"	331	520	30.5	2250
100 600	150mm	5 15/16" 6"	397	606	31.4	2060
100 800	200mm	7 15/16" 8"	325	571	48	1070
100 808	220mm	-	515	814	50	930

01/01E SERIES

Group Reference	Shaft Diameter d		Bearing Ratings Cr (kN)	Cor (kN)	Ca (kN)	Max. Speed (rpm)
01 108	35mm 40mm	1 3-16" 1 1/4" 1 7/16" 1 1/2"	67	67	3.2	5400
01E 200	45mm 50mm	1 11/16" 1 3/4" 1 15/16" 2"	95	105	3.8	4630
01E 208	55mm 60mm 65mm	2 3/16" 2 1/4" 2 7/16" 2 1/2"	135	157	7.2	3940
01E 300	70mm 75mm	2 11/16" 2 3/4" 2 15/16" 3"	166	197	10.8	3310
01E 308	80mm 85mm 90mm	3 3/16" 3 1/4" 3 7/16" 3 1/2"	234	299	13.6	2790
01E 400	95mm 100mm 105mm	3 11/16" 3 3/4" 3 15/16" 4"	320	421	19.6	2340
01 408	110mm 115mm	4 3/16" 4 7/16" 4 1/2"	306	407	18.6	1970

01/01E SERIES

Group Reference	Shaft Diameter d		Bearing Ratings Cr (kN)	Cor (kN)	Ca (kN)	Max. Speed (rpm)
01 500	120mm 125mm 130mm	4 15/16" 5"	355	484	22.2	1740
01 508	135mm 140mm	5 3/16" 5 7/16" 5 1/2"	394	542	25.8	1570
01 600	150mm 160mm	5 15/16" 6"	428	616	29.4	1450
01E 608	160mm 170mm	6 7/16" 6 1/2"	594	863	56.5	1320
01E 700	170mm 175mm 180mm	6 15/16" 7"	557	845	52.2	1220
01E 800	190mm 200mm	7 15/16" 8"	679	1078	72.5	1070
01E 900	220mm 230mm	9"	715	1191	79.8	930
01E 1000	240mm 250mm 260mm	10"	804	1367	96.6	820
01E 1100	260mm 270mm 275mm 280mm	11"	917	1560	127	730
01E 1200	290mm 300mm	12"	1041	1885	139	650
01 1300	320mm 330mm 340mm	13"	894	1638	89.0	590
01 1400	340mm 350mm 360mm	14"	935	1774	99.6	540
01 1500	360mm 380mm	15"	1005	1925	110	500
01 1600	390mm 400mm	16"	1048	2071	116	460
01 1700	420mm	17"	1089	2218	121	430
01 1800	440mm 460mm	18"	1129	2366	127	410
01 1900	480mm	19"	1169	2433	133	380
01 2000	500mm	20"	1213	2593	138	360
01 2100	530mm	21"	1253	2755	141	340
01 2200	560mm	22"	1294	2916	142	330
01 2300	580mm	23"	1387	3138	144	310
01 2400	600mm	24"	1431	3311	147	300

02/02E SERIES

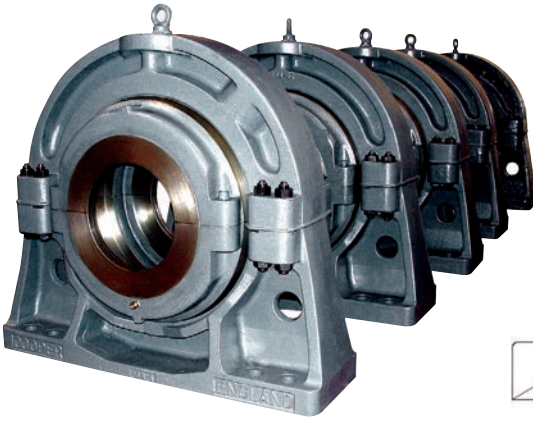
Group Reference	Shaft Diameter d		Bearing Ratings Cr (kN)	Cor (kN)	Ca (kN)	Max. Speed (rpm)
02 200	50mm	1 15/16" 2"	119	125	6.2	4350
02 208	60mm 65mm	2 3/16" 2 1/4" 2 7/16" 2 1/2"	168	193	8.8	3680
02 300	70mm 75mm	2 11/16" 2 3/4" 2 15/16" 3"	229	268	10.6	3080
02 308	80mm 85mm 90mm	3 3/16" 3 1/4" 3 7/16" 3 1/2"	280	345	17.8	2520
02 400	100mm 105mm	3 11/16" 3 3/4" 3 15/16" 4"	362	456	25.0	2130
02 408	110mm 115mm	4 3/16" 4 7/16" 4 1/2"	454	583	31.2	1820
02 500	120mm 125mm 130mm	4 15/16" 5"	547	713	38.2	1600
02 508	140mm 145mm	5 3/16" 5 7/16" 5 1/2"	608	808	45.4	1450
02 600	150mm 155mm 160mm	5 15/16" 6"	724	1005	52.4	1320
02E 608	160mm 170mm	6 7/16" 6 1/2"	887	1262	71.2	1200
02E 700	175mm 180mm	6 15/16" 7"	936	1334	82.8	1120

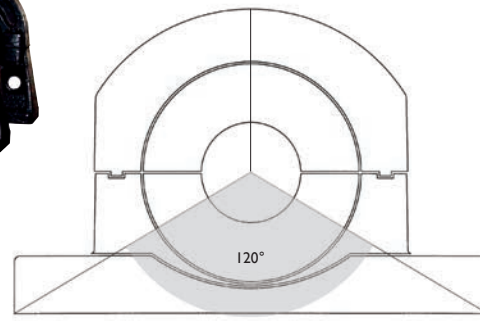
02/02E SERIES

Group Reference	Shaft Diameter d		Bearing Ratings Cr (kN)	Cor (kN)	Ca (kN)	Max. Speed (rpm)
02E 800	190mm 200mm	7 15/16" 8"	1137	1627	122	960
02E 900	220mm 230mm	9"	1233	1863	138	850
02E 1000	240mm 250mm 260mm	10"	1346	1986	167	750
02E 1100	280mm	11"	1545	2435	190	670
02E 1200	300mm	12"	1660	2735	214	610
02 1300	320mm 330mm	13"	1570	2622	144	550
02 1400	340mm 350mm 360mm	14"	1744	2940	159	500
02 1500	380mm	15"	1862	3254	174	460
02 1600	400mm	16"	1948	3438	188	430
02 1700	420mm	17"	2069	3702	202	400
02 1800	440mm 460mm	18"	2195	4057	216	380
02 1900	480mm	19"	2313	4419	230	360
02 2000	500mm	20"	2430	4776	244	340
02 2100	530mm	21"	2658	5137	258	330
02 2200	560mm	22"	2790	5556	272	310
02 2300	580mm	23"	2336	4836	227	300
02 2400	600mm	24"	2905	5992	300	290

03E SERIES

Group Reference	Shaft Diameter d		Bearing Ratings Cr (kN)	Cor (kN)	Ca (kN)	Max. Speed (rpm)
03 400	100mm	3 15/16" 4"	610	684	31.2	1820
03 408	110mm 120mm	4 7/16" 4 1/2"	614	698	39.2	1640
03 500	130mm	4 15/16" 5"	706	852	49.0	1500
03 508	140mm	5 7/16" 5 1/2"	886	1069	58.8	1340
03 600	150mm	5 15/16" 6"	994	1213	69.4	1220
03 608	160mm 170mm	6 7/16" 6 1/2"	1156	1564	79.2	1110
03 700	180mm	6 15/16" 7"	1242	1704	89.0	1030
03 800	190mm 200mm	7 15/16" 8"	1451	2022	99.6	880
03 900	220mm	9"	1586	2163	109.4	760
03 1000	240mm 250mm 260mm	10"	1778	2551	131	700
03E 1100	280mm	11"	2105	3233	153	620
03 1200	290mm 300mm	12"	2156	3312	174	560
03 1300	320mm	13"	2529	3795	199	500
03E 1400	340mm 360mm	14"	2750	4392	214	460
03 1500	380mm 400mm	15"	3019	4800	251	420
03E 1700	420mm 440mm	17"	3474	6006	276	360
03E 1800	460mm	18"	3650	6156	302	340
03 2000	500mm 530mm	20"	4087	7042	347	310
03E 2200	560mm	22"	4669	8511	383	280
03E 2300	600mm	23"	4887	9130	400	270





PEDESTALS

Pedestals (also known as Pillow Blocks) are the most common method of mounting Cooper split roller bearings (in cartridges as explained above).

Cooper standard pedestals are shown on the following pages. Pedestals with height-to-centre and bolt hole configurations to match industry standard SN, SD and SAF pillow blocks are listed separately in this catalogue.

Pedestals are common between expansion (EX) and fixed (GR) units.

LOADS AND MOUNTING

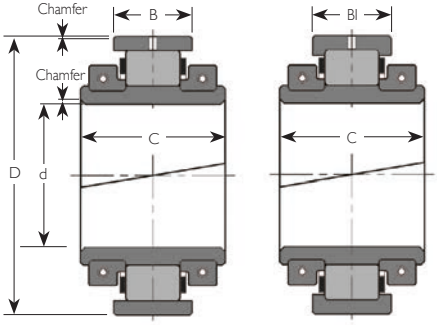
The maximum safe radial load for a pedestal is based on the static rating (Cor) of the corresponding size of roller bearing. The full static rating can be applied if the angle of the load falls within the shaded area of the sketch, except for the SNC 500 range for which the maximum load is reduced to 50% Cor.

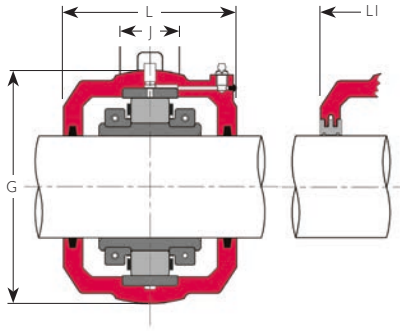
If the radial load falls outside the shaded area, if the radial load exceeds Cor, or if the axial loads exceed 50% of the axial rating (Ca) of the corresponding roller bearing please consult our technical department. For 100 Series bearings, the maximum axial load is reduced to 35% Ca and for 01E and 02E series to 26% Ca due to their higher axial load ratings.

Pedestals should be fully supported on a flat, rigid surface to avoid distortion of the pedestal or deflection under load. The flatness of the supporting surface should be to tolerance IT7 according to ISO 1101 and the surface roughness not more than 12.5µm Ra.

For loads within 45° of horizontal, the base should be chocked or dowelled.

Standard Cooper pedestals are manufactured from grade EN-GJL-250 grey iron to BS EN 1561 : 1997. Ductile iron and steel pedestals are also available and should be considered for shock or pulsating loads. Particulars of pedestals in alternative materials are available from our technical department.





BEARING DATA

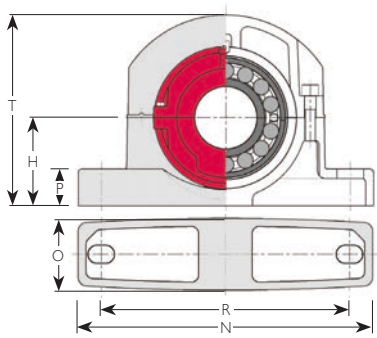
CARTRIDGE DATA

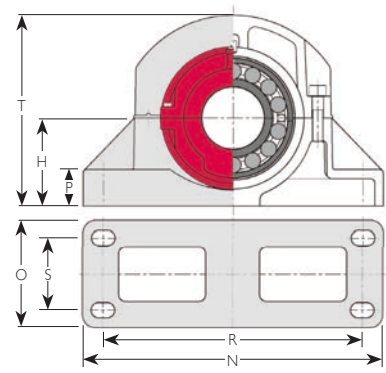
Group Reference	Shaft Diameter d		Reference (1)		D (mm)	C (mm)	B BI (mm)	Axial Float (2) (mm)	Mass (kg)	Cartridge References (1) for felt seals	for ATL seals	G (mm)	J (mm)	L LI (mm)	Mass (kg)
100 300	75mm	2 15/16" 3"	100 B 75M	100 B 215 100 B 300	114.30	48.0	27.0 27.0	3.5	1.2	100 C 75M	100 C 215 100 C 300	100 C 03	134.94	32	104 104	3.6
100 307	85mm	3 7/16"	100 B 85M	100 B 307	133.35	60.0	31.8 31.8	5	2.1	100 C 85M	100 C 307	100 C 04	157.16	38	114 114	5.4
100 400	100mm	3 15/16" 4"	100 B 100M	100 B 315 100 B 400	152.4	65.0	38.9 38.9	6	2.8	100 C 100M	100 C 315 100 C 400	100 C 05	177.80	50	136 136	7.4
100 408	110mm 115mm	4 7/16" 4 1/2"	100 B 110M 100 B 115M	100 B 407 100 B 408	174.62	80.0	45.3 45.3	7	4.6	100 C 110M 100 C 115M	100 C 407 100 C 408	100 C 06	203.20	50	134 134	7.9
100 500	120mm 125mm 130mm	4 15/16" 5"	100 B 120M 100 B 125M 100 B 130M	100 B 415 100 B 500	203.20	85.0	46.9 46.9	7	7.4	100 C 120M 100 C 125M 100 C 130M	100 C 415 100 C 500	100 C 07	231.78	64	142 142	11
100 508	140mm	5 7/16" 5 1/2"	100 B 140M	100 B 507 100 B 508	222.25	90.0	54.0 54.0	7	9.3	100 C 140M	100 C 507 100 C 508	100 C 08	266.70	76	156 156	18.4
100 600	150mm	5 15/16" 6"	100 B 150M	100 B 515 100 B 600	241.30	90.0	55.6 55.6	8	10.4	100 C 150M	100 C 515 100 C 600	100 C 09	279.40	76	168 168	19.4
100 800	200mm	7 15/16" 8"	100 B 200M	100 B 715 100 B 800	285.75	109.0	55.5 55.5	6	18	100 C 200M	100 C 715 100 C 800	(3)	323.85	70	172 (3)	24
100 808	220mm	-	100 B 220M	-	311.15	109.0	60.3 60.3	8	29	100 C 220M	-	(3)	358.78	86	172 (3)	35

1) Add 'EX' or 'GR' to reference for expansion or fixed type respectively, e.g: Bearing: 100 B 75M EX or 100 B 215 EX Cartridge: 100 C 75M EX or 100 C 03 EX

2) Total movement tabulated. Maximum offset from centreline half this amount.

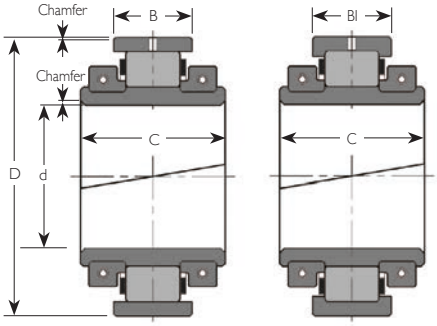
2) Refer to Cooper

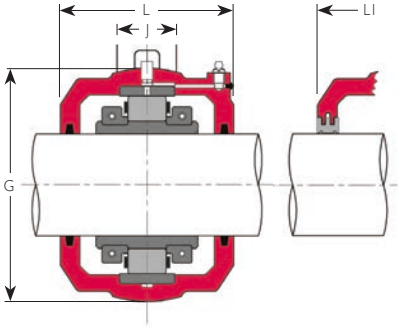




PEDESTAL DATA

Reference	H (mm)	R Min. (mm)	R Max. (mm)	Ro (mm)	S (mm)	Bolts	N (mm)	O (mm)	P (mm)	T (mm)	Mass (Kg)	Shaft Diameter d		Group Reference
P03	80	226	242	-	-	2-off M16 or 5/8"	280	70	32	180	4.9	75mm	2 15/16" 3"	100 300
P04	95	260	280	-	-	2-off M20 or 3/4"	330	76	38	208	6.9	85mm	3 7/16"	100 307
P05	112	312	328	-	-	2-off M24 or 7/8"	380	90	44	252	13.3	100mm	3 15/16" 4"	100 400
P06	125	342	366	-	-	2-off M24 or 7/8"	420	102	52	272	14.7	110mm 115mm	4 7/16" 4 1/2"	100 408
P07	143	374	410	-	-	2-off M24 or 7/8"	466	120	60	314	20.6	120mm 125mm 130mm	4 15/16" 5"	100 500
P08	162	438	462	-	120	4-off M24 or 7/8"	508	178	38	372	43.3	140mm	5 7/16" 5 1/2"	100 508
P09	181	470	494	-	120	4-off M24 or 7/8"	558	178	41	405	52	150mm	5 15/16" 6"	100 600
P12	235	376	400	-	128	4-off M24 or 1"	534	190	35	470	63	100 800	200mm	7-15/16" 8"
P13	248	410	434	-	140	4-off M24 or 1"	572	204	38	495	83	100 808	220mm	-





BEARING DATA

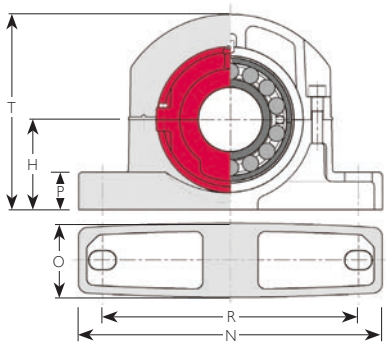
Group Reference	Shaft Diameter d		Reference (1)		D (mm)	C (mm)	B/Bl (mm)	Axial Float (2) (mm)	Mass (kg)
01 108	35 40	1 3/16" 1 1/4" 1 7/16" 1 1/2"	01 B 35M 01 B 40M	01 B 103 01 B 104 01 B 107 01 B 108	84.14	50.1	23.8 23.8	3.5	1.2
01E 200	45 50	1 11/16" 1 3/4" 1 15/16" 2"	01E B 45M 01E B 50M	01E B 111 01E B 112 01E B 115 01E B 200	98.42	55.7	25.4 25.4	4	1.5
01E 208	55 60 65	2 3/16" 2 1/4" 2 7/16" 2 1/2"	01E B 55M 01E B 60M 01E B 65M	01 E B 203 01 E B 204 01 E B 207 01 E B 208	114.30	55.7	27.0 27.0	4.5	1.8
01E 300	70 75	2 11/16" 2 3/4" 2 15/16" 3"	01E B 70M 01E B 75M	01E B 211 01E B 212 01E B 215 01 E B 300	133.35	61.2	31.8 31.8	5	2.5
01E 308	80 85 90	3 3/16" 3 1/4" 3 7/16" 3 1/2"	01E B 80M 01E B 85M 01E B 90M	01E B 303 01E B 304 01E B 307 01E B 308	152.40	70.7	38.9 38.9	6	4.0
01E 400	95 100 105	3 11/16" 3 3/4" 3 15/16" 4"	01E B 95M 01E B 100M 01E B 105M	01E B 311 01E B 312 01E B 315 01E B 400	174.62	81.0	45.3 45.3	7	6.0
01 408	110 115	4 3/16" 4 7/16" 4 1/2"	01 B 110M 01 B 115M	01 B 403 01 B 407 01 B 408	203.20	84.9	46.9 46.9	7	10.2
01 500	120 125 130	4 15/16" 5"	01 B 120M 01 B 125M 01 B 130M	01 B 415 01 B 500	222.25	89.7	54.0 54.0	7	12.8
01 508	135 140	5 3/16" 5 7/16" 5 1/2"	01 B 135M 01 B 140M	01 B 503 01 B 507 01 B 508	241.30	98.4	55.6 55.6	8	15.0
01 600	150 160	5 15/16" 6"	01 B 150M 01 B 600-160M	01 B 515 01 B 600	254.00	98.4	55.6 55.6	8	16.6

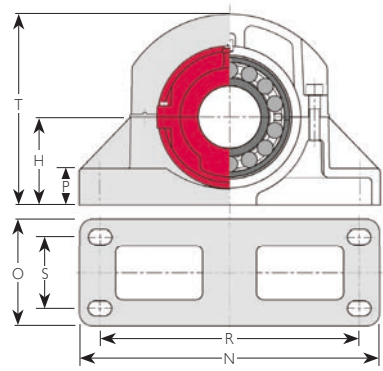
CARTRIDGE DATA

Cartridge References (1) for felt seals	Cartridge References (1) for ATL seals	G (mm)	J (mm)	L/Ll (mm)	Mass (kg)
01 C 35M 01 C 40M	01 C 103 01 C 104 01 C 107 01 C 108	01 C 01	100.00	25	86 86	2
01 C 45M 01 C 50M	01 C 111 01 C 112 01 C 115 01 C 200	01 C 02	117.48	25	98 98	2.5
01 C 55M 01 C 60M 01 C 65M	01 C 203 01 C 204 01 C 207 01 C 208	01 C 03	134.94	32	104 104	3.2
01 C 70M 01 C 75M	01 C 211 01 C 212 01 C 215 01 C 300	01 C 04	157.16	38	114 114	5.5
01 C 80M 01 C 85M 01 C 90M	01 C 303 01 C 304 01 C 307 01 C 308	01 C 05	177.80	50	136 136	7
01 C 95M 01 C 100M 01 C 105M	01 C 311 01 C 312 01 C 315 01 C 400	01 C 06	203.20	50	134 134	8
01 C 110M 01 C 115M	01 C 403 01 C 407 01 C 408	01 C 07	231.78	64	142 142	11.9
01 C 120M 01 C 125M 01 C 130M	01 C 415 01 C 500	01 C 08	266.70	76	156 156	19.5
01 C 135M 01 C 140M	01 C 503 01 C 507 01 C 508	01 C 09	279.40	76	168 168	20.8
01 C 150M 01 C 600-160M*	01 C 515 01 C 600	01 C 10*	295.28	82	174	24.4

1) Add 'EX' or 'GR' to reference for expansion or fixed type respectively, e.g. Bearing: 01 B 35M EX or 01 B 103 EX
Cartridge: 01 C 35M EX or 01 C 01 EX

2) Total movement tabulated. Maximum offset from centreline half this amount



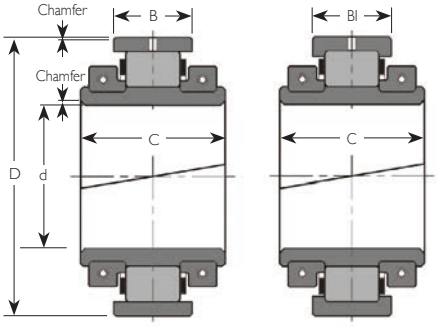


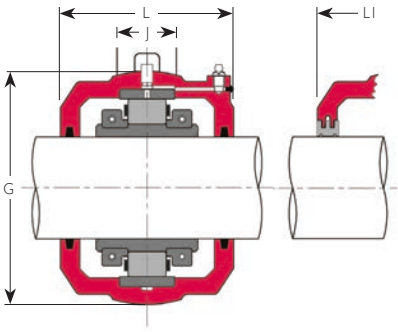
PEDESTAL DATA

Reference	H (mm)	R Min. (mm)	R Max. (mm)	Ro (mm)	S (mm)	Bolts	N (mm)	O (mm)	P (mm)	T (mm)	Mass (Kg)
P01	60	172	192	-	-	2-off M12 or 1/2"	228	60	22	138	2.5
P02	70	203	227	-	-	2-off M16 or 5/8"	270	60	25	158	3.2
P03	80	226	242	-	-	2-off M16 or 5/8"	280	70	32	180	4.9
P04	95	260	280	-	-	2-off M20 or 3/4"	330	76	38	208	6.9
P05	112	312	328	-	-	2-off M24 or 7/8"	380	90	44	252	13.3
P06	125	342	366	-	-	2-off M24 or 7/8"	420	102	52	272	14.7
P07	143	374	410	-	-	2-off M24 or 7/8"	466	120	60	314	20.6
P08	162	438	462	-	120	4-off M24 or 7/8"	508	178	38	372	43.3
P09	181	470	494	-	120	4-off M24 or 7/8"	558	178	41	405	52
P10	181	484	508	-	120	4-off M24 or 7/8"	558	178	41	415	54

Shaft Diameter d mm	inches	Group Reference
35 40	1 3/16" 1 1/4" 1 7/16" 1 1/2"	01 108
45 50	1 11/16" 1 3/4" 1 15/16" 2"	01E 200
55 60 65	2 3/16" 2 1/4" 2 7/16" 2 1/2"	01E 208
70 75	2 11/16" 2 3/4" 2 15/16" 3"	01E 300
80 85 90	3 3/16" 3 1/4" 3 7/16" 3 1/2"	01E 308
95 100 105	3 11/16" 3 3/4" 3 15/16" 4"	01E 400
110 115	4 3/16" 4 7/16" 4 1/2"	01 408
120 125 130	4 15/16" 5"	01 500
135 140	5 3/16" 5 7/16" 5 1/2"	01 508
150 160	5 15/16" 6"	01 600

* Add 'OTL' to reference for cartridge for ATL seals if the cartridge for felt seals with the same bore size is also marked*, eg 01 C 10 OTL.





BEARING DATA

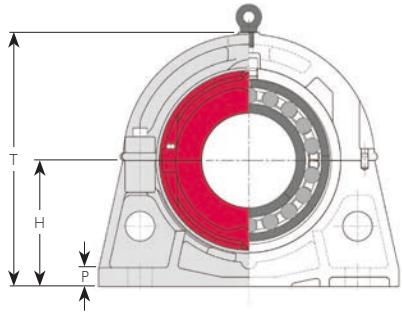
CARTRIDGE DATA

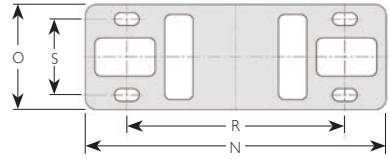
Group Reference	Shaft Diameter d	Reference (1)		D (mm)	C (mm)	B BI	Axial Float (2) (mm)	Mass (kg)	Cartridge References (1) for felt seals	for ATL seals	G (mm)	J (mm)	L/LI (mm)	Mass (kg)
01E 608	160mm 6 7/16" 170mm 6 1/2"	01E B 160M 01E B 608-170M	01E B 607 01E B 608	273.05	109.0	60.3 60.3	8	21.0	01 C 160M 01 C 608-170M*	01 C 607 01 C 608	01 C 11*	311.15	76	172 192	30
01E 700	170mm 175mm 180mm 6 15/16" 7"	01E B 170M 01E B 175M 01E B 180M	01E B 615 01E B 700	285.75	109.0	55.5 55.5	8	23.0	01 C 170M 01 C 175M 01 C 180M	01 C 615 01 C 700	01 C 12	323.85	70	172 200	31
01E 800	190mm 7 15/16" 200mm 8"	01E B 190M 01E B 200M	01E B 715 01E B 800	311.15	109.0	60.3 60.3	8	25.0	01 C 190M 01 C 200M	01 C 715 01 C 800	01 C 13	358.78	86	172 200	41
01E 900	220mm 230mm 9"	01E B 220M 01E B 230M	01E B 900	342.90	115.0	63.5 63.5	8	32	01 C 220M 01 C 230M	01 C 900	01 C 14	387.35	82	178 216	46
01E 1000	240mm 250mm 260mm 10"	01E B 240M 01E B 250M 01E B 1000-260M	01E B 1000	374.65	122.0	66.7 66.7	9	40	01 C 240M 01 C 250M 01 C 1000-260M*	01 C 1000	01 C 15*	419.10	90	188 222	58
01E 1100	260mm 270mm 275mm 280mm 11"	01E B 260M 01E B 270M 01E B 275M 01E B 280M	01E B 1100	406.40	128.0	69.0 69.0	10	50	01 C 260M 01 C 270M 01 C 275M 01 C 280M	01 C 1100	01 C 16	454.00	95	204 232	70
01E 1200	290mm 300mm 12"	01E B 290M 01E B 300M	01E B 1200	438.15	143.0	74.6 74.6	10	60	01 C 290M 01 C 300M	01 C 1200	01 C 17	489.00	98	216 248	86

1) Add 'EX' or 'GR' to reference for expansion or fixed type respectively, e.g. **Bearing:** 01 B 160M EX or 01 B 607 EX **Cartridge:** 01 C 160M EX or 01 C 11 EX

2) Total movement tabulated. Maximum offset from centreline half this amount

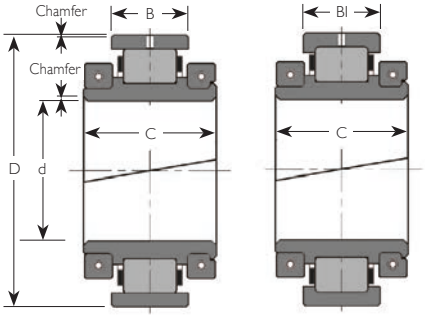
* Add 'OTL' to reference for cartridge for ATL seals if the cartridge for felt seals with the same bore size is also marked*, eg 01 C 11 OTL

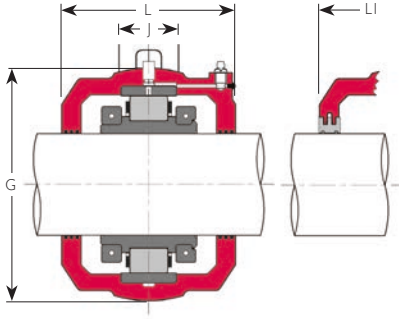




PEDESTAL DATA

Reference	H (mm)	R Min. (mm)	R Max. (mm)	Ro (mm)	S (mm)	Bolts	N (mm)	O (mm)	P (mm)	T (mm)	Mass (Kg)	Shaft Diameter d		Group Reference
P11	213	356	380	-	114	4-off M24 or 1"	508	178	32	430	53	160mm 170mm	6 7/16" 6 1/2"	01E 608
P12	235	376	400	-	128	4-off M24 or 1"	534	190	35	470	63	170mm 175mm 180mm	6 15/16" 7"	01E 700
P13	248	410	434	-	140	4-off M24 or 1"	572	204	38	495	83	190mm 200mm	7 15/16" 8"	01E 800
P14	270	440	480	-	140	4-off M30 or 1 1/4"	636	216	40	540	90	220mm 230mm	9"	01E 900
P15	292	482	522	-	140	4-off M30 or 1 1/4"	686	228	44	585	114	240mm 250mm 260mm	10"	01E 1000
P16	311	514	554	-	140	4-off M30 or 1 1/4"	724	228	48	620	142	260mm 270mm 275mm 280mm	11"	01E 1100
P17	343	564	604	-	178	4-off M30 or 1 1/4"	762	254	50	685	169	290mm 300mm	12"	01E 1200





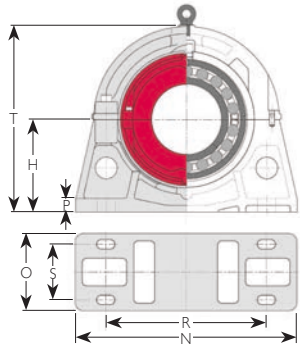
BEARING DATA

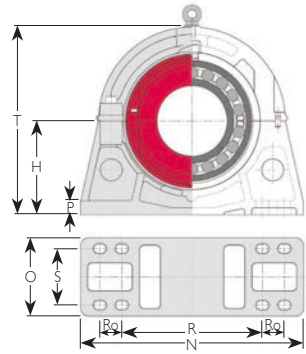
CARTRIDGE DATA

Group Reference	Shaft Diameter d		Reference (1)		D (mm)	C (mm)	B Bl	Axial Float (2) (mm)	Mass (kg)	Cartridge References (1) for felt seals	for ATL seals	G (mm)	J (mm)	L/Ll (mm)	Mass (kg)
01 1300	320mm 330mm 340mm	13"	01 B 320M 01 B 330M 01 B 1300-340M	01 B 1300	463.55	136.0	74.6 74.6	10	72	01 C 320M 01 C 330M 01 C 1300-340M	01 C 1300	01 C 18	520.70	95	260 272	106
01 1400	340mm 350mm 360mm	14"	01 B 340M 01 B 350M 01 B 1400-360M	01 B 1400	488.95	136.0	74.6 74.6	10	78	01 C 340M 01 C 350M 01 C 1400-360M	01 C 1400	01 C 19	546.10	98	260 272	117
01 1500	360mm 380mm	15"	01 B 360M 01 B 380M	01 B 1500	520.70	140.0	76.2 76.2	10	86	01 C 360M 01 C 380M	01 C 1500	01 C 20	571.50	98	260 280	126
01 1600	390mm 400mm	16"	01 B 390M 01 B 400M	01 B 1600	546.10	140.0	76.2 76.2	10	95	01 C 390M 01 C 400M	01 C 1600	01 C 21	603.30	102	280 286	141
01 1700	420mm	17"	01 B 420M	01 B 1700	571.50	140.0	76.2 76.2	10	104	01 C 420M	01 C 1700	01 C 22	628.70	102	292 298	150
01 1800	440mm 460mm	18"	01 B 440M	01 B 1800	596.90	140.0	76.2 76.2	10	114	01 C 440M 01 C 460M	01 C 1800	01 C 23	650.90	108	304 310	151
01 1900	480mm	19"	01 B 480M	01 B 1900	628.65	144.0	81.0 81.0	11	128	01 C 480M	01 C 1900	01 C 24	682.60	108	304 324	162
01 2000	500mm	20"	01 B 500M	01 B 2000	654.05	168.0	80.2 80.2	11	136	01 C 500M	01 C 2000	01 C 25	717.60	114	304 330	192
01 2100	530mm	21"	01 B 530M	01 B 2100	692.15	168.0	81.0 81.0	11	164	01 C 530M	01 C 2100	01 C 26	755.70	114	330 336	226
01 2200	560mm	22"	01 B 560M	01 B 2200	717.55	168.0	81.0 81.0	11	178	01 C 560M	01 C 2200	01 C 27	781.10	114	336 342	252
01 2300	580mm	23"	01 B 580M	01 B 2300	749.30	172.0	84.1 84.1	11	195	01 C 580M	01 C 2300	01 C 28	816.00	120	342 348	273
01 2400	600mm	24"	01 B 600M	01 B 2400	774.70	172.0	84.1 84.1	11	210	01 C 600M	01 C 2400	01 C 29	841.40	120	342 348	290

1) Add 'EX' or 'GR' to reference for expansion or fixed type respectively, e.g. **Bearing:** 01 B 320M EX or 01 B 1300 EX **Cartridge:** 01 C 320M EX or 01 C 18 EX

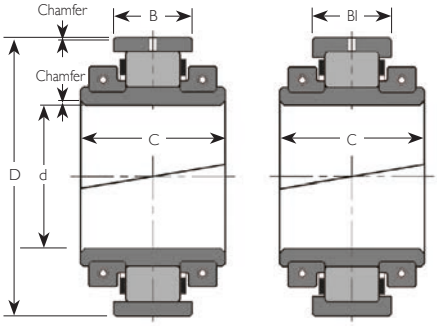
2) Total movement tabulated. Maximum offset from centreline half this amount

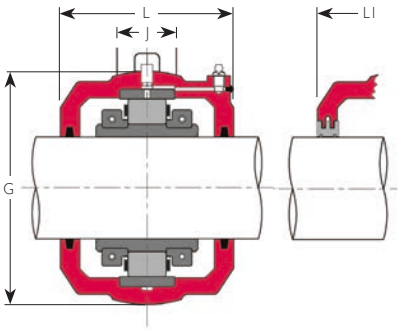




PEDESTAL DATA

Reference	H (mm)	R Min. (mm)	R Max. (mm)	Ro (mm)	S (mm)	Bolts	N (mm)	O (mm)	P (mm)	T (mm)	Mass (Kg)	Shaft Diameter d		Group Reference
P18	368	602	642	-	178	4-off M36 or 1 1/2"	812	254	54	735	196	320mm 330mm 340mm	13"	01 1300
P19	387	634	674	-	166	4-off M36 or 1 1/2"	850	254	57	775	213	340mm 350mm 360mm	14"	01 1400
P20	397	656	696	-	166	4-off M36 or 1 1/2"	902	254	60	795	288	360mm 380mm	15"	01 1500
P21	432	704	744	-	166	4-off M36 or 1 1/2"	940	254	67	865	309	390mm 400mm	16"	01 1600
P22	445	736	776	-	166	4-off M36 or 1 1/2"	966	254	67	890	316	420mm	17"	01 1700
P23	464	768	808	-	190	4-off M42 or 1 3/4"	1042	280	70	925	370	440mm 460mm	18"	01 1800
P24	483	796	836	-	188	4-off M42 or 1 3/4"	1092	304	73	965	402	480mm	19"	01 1900
P25	489	824	864	-	216	4-off M42 or 1 3/4"	1092	304	76	980	402	500mm	20"	01 2000
P26	533	884	924	-	206	4-off M42 or 1 3/4"	1194	304	80	1065	495	530mm	21"	01 2100
P27	552	916	956	-	206	4-off M42 or 1 3/4"	1220	304	83	1110	570	560mm	22"	01 2200
P28	578	857	896	102	220	8-off M36 or 1 1/2"	1346	304	90	1156	630	580mm	23"	01 2300
P29	597	888	928	105	220 84.1	8-off M36 or 1 1/2"	1372	304	90	1200	630	600mm	24"	01 2400





BEARING DATA

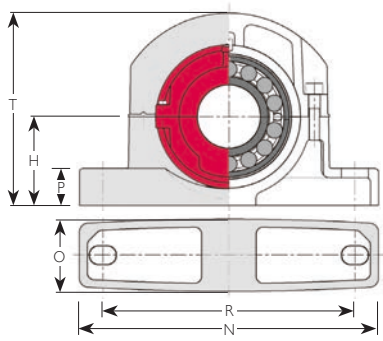
Group Reference	Shaft Diameter d		Reference (1)		D (mm)	C (mm)	B / BI (mm)	Axial Float (2) (mm)	Mass (kg)
02 200	50mm	1 15/16" 2"	02 B 50M	02 B 115 02 B 200	107.95	67.5	35.0 35.0	5	2.0
02 208	60mm 65mm	2 3/16" 2 1/4" 2 7/16" 2 1/2"	02 B 60M 02 B 65M	02 B 203 02 B 204 02 B 207 02 B 208	127.00	72.3	38.9 38.9	5.5	3.0
02 300	70mm 75mm	2 11/16" 2 3/4" 2 15/16" 3"	02 B 70M 02 B 75M	02 B 211 02 B 212 02 B 215 02 B 300	149.22	82.6	46.1 46.1	6	5.0
02 308	80mm 85mm 90mm	3 3/16" 3 1/4" 3 7/16" 3 1/2"	02 B 80M 02 B 85M 02 B 90M	02 B 303 02 B 304 02 B 307 02 B 308	169.86	89.7	48.4 48.4	7	7.0
02 400	100mm 105mm	3 11/16" 3 3/4" 3 15/16" 4"	02 B 100M 02 B 105M	02 B 311 02 B 312 02 B 315 02 B 400	193.68	92.1	51.6 51.6	8	9.0
02 408	110mm 115mm	4 3/16" 4 7/16" 4 1/2"	02 B 110M 02 B 115M	02 B 403 02 B 407 02 B 408	228.60	100.0	57.2 57.2	9	16.0
02 500	120mm 125mm 130mm	4 15/16" 5"	02 B 120M 02 B 125M 02 B 130M	02 B 415 02 B 500	254.00	114.3	63.5 63.5	10	20.0

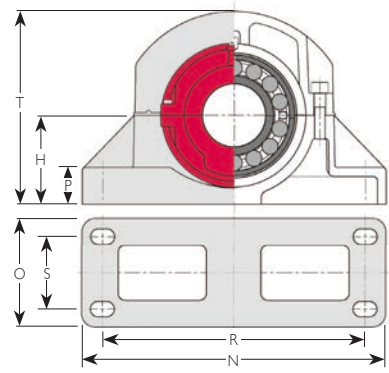
CARTRIDGE DATA

Cartridge References (1) for felt seals		for ATL seals	G (mm)	J (mm)	L/LI (mm)	Mass (kg)
02 C 50M	02 C 115 02 C 200	02 C 03	134.94	32	114 114	4
02 C 60M 02 C 65M	02 C 203 02 C 204 02 C 207 02 C 208	02 C 04	157.16	38	126 126	7
02 C 70M 02 C 75M	02 C 211 02 C 212 02 C 215 02 C 300	02 C 05	177.80	50	140 140	9
02 C 80M 02 C 85M 02 C 90M	02 C 303 02 C 304 02 C 307 02 C 308	02 C 06	203.20	50	154 154	10
02 C 100M 02 C 105M	02 C 311 02 C 312 02 C 315 02 C 400	02 C 07	231.78	64	146 146	12
02 C 110M 02 C 115M	02 C 403 02 C 407 02 C 408	02 C 08	266.70	76	162 162	19
02 C 120M 02 C 125M 02 C 130M	02 C 415 02 C 500	02 C 10	295.28	82	184 184	26

1) Add 'EX' or 'GR' to reference for expansion or fixed type respectively, e.g: **Bearing:** 02 B 50M EX or 02 B 115 EX **Cartridge:** 02 C 50M EX or 02 C 03 EX

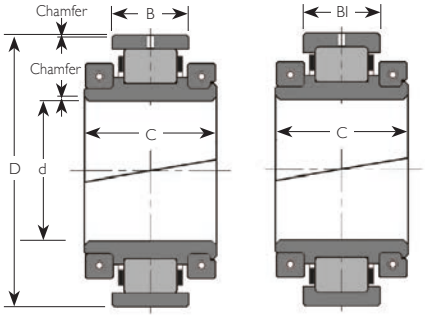
2) Total movement tabulated. Maximum offset from centre line half this amount.

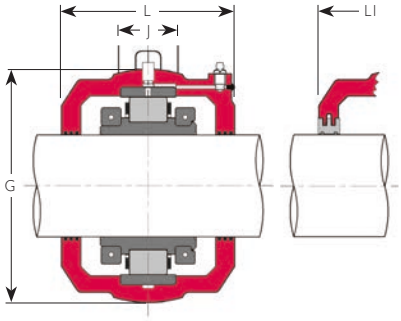




PEDESTAL DATA

Reference	H (mm)	R Min. (mm)	R Max. (mm)	Ro (mm)	S (mm)	Bolts	N (mm)	O (mm)	P (mm)	T (mm)	Mass (Kg)	Shaft Diameter d		Group Reference
P03	80	226	242	-	-	2-off M16 or 5/8"	280	70	32	180	4.9	50mm	1 15/16" 2"	02 200
P04	95	260	280	-	-	2-off M20 or 3/4"	330	76	38	208	6.9	60mm 65mm	2 3/16" 2 1/4" 2 7/16" 2 1/2"	02 208
P05	112	312	328	-	-	2-off M24 or 7/8"	380	90	44	252	13.3	70mm 75mm	2 11/16" 2 3/4" 2 15/16" 3"	02 300
P06	125	342	366	-	-	2-off M24 or 7/8"	420	102	52	272	14.7	80mm 85mm 90mm	3 3/16" 3 1/4" 3 7/16" 3 1/2"	02 308
P07	143	374	410	-	-	2-off M24 or 7/8"	466	120	60	314	20.6	100mm 105mm	3 11/16" 3 3/4" 3 15/16" 4"	02 400
P08	162	438	462	-	120	4-off M24 or 7/8"	508	178	38	372	43.3	110mm 115mm	4 3/16" 4 7/16" 4 1/2"	02 408
P10	181	484	508	-	120	4-off M24 or 7/8"	558	178	41	415	54	120mm 125mm 130mm	4 15/16" 5"	02 500





BEARING DATA

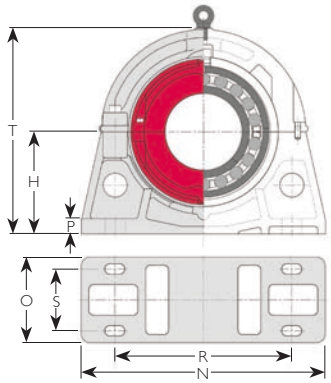
CARTRIDGE DATA

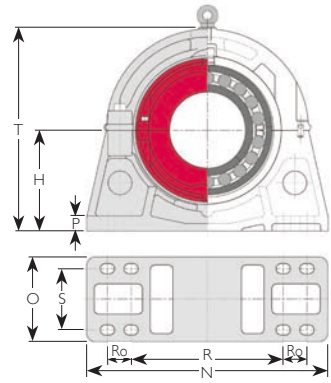
Group Reference	Shaft Diameter d		Reference (1)		D (mm)	C (mm)	B / BI (mm)	Axial Float (2) (mm)	Mass (kg)	Cartridge References (1) for felt seals	for ATL seals	G (mm)	J (mm)	L/LI (mm)	Mass (kg)
02 508	140mm 145mm	5 3/16" 5 7/16" 5 1/2"	02 B 140M 02 B 145M	02 B 503 02 B 507 02 B 508	273.05	117.5	66.7 66.7	10	24.0	02 C 140M 02 C 145M	02 C 503 02 C 507 02 C 508	323.85	90	188 188	33
02 600	150mm 155mm 160mm	5 15/16" 6"	02 B 150M 02 B 155M 02 B 600-160M	02 B 515 02 B 600	292.10	123.8	68.3 68.3	10	29.0	02 C 150M 02 C 155M 02 C 600-160M*	02 C 515 02 C 600	336.55	95	204 204	39
02E 608	160mm 170mm	6 7/16" 6 1/2"	02E B 160M 02E B 170M	02E B 607 02E B 608	317.50	140.0	83.3 83.3	11	39.0	02 C 160M 02 C 170M*	02 C 607 02 C 608	368.30	95	206 232	56
02E 700	175mm 180mm	6 15/16" 7"	02E B 175M 02E B 180M	02E B 615 02E B 700	330.20	140.0	83.3 83.3	11	45.0	02 C 175M 02 C 180M	02 C 615 02 C 700	381.00	95	222 242	66
02E 800	190mm 200mm	7 15/16" 8"	02E B 190M 02E B 200M	02E B 715 02E B 800	368.30	156.0	90.5 90.5	13	59.0	02 C 190M 02 C 200M	02 C 715 02 C 800	425.50	105	235 258	84
02E 900	220mm 230mm	9"	02E B 220M 02E B 230M	02E B 900	393.70	163.0	90.5 90.5	13	68	02 C 220M 02 C 230M	02 C 900	457.20	110	242 274	98
02E 1000	240mm 250mm 260mm	10"	02E B 240M 02E B 250M 02E B 260M	02E B 1000	431.80	170.0	96.8 96.8	13	77	02 C 240M 02 C 250M 02 C 260M*	02 C 1000	495.30	118	248 280	105
02E 1100	280mm	11"	02E B 280M	02E B 1100	463.55	186.0	101.6 101.6	14	86	02 C 280M	02 C 1100	527.10	130	264 300	131
02E 1200	300mm	12"	02E B 300M	02E B 1200	495.30	193.0	103.2 103.2	14	123	02 C 300M	02 C 1200	552.50	128	268 306	129

1) Add 'EX' or 'GR' to reference for expansion or fixed type respectively, e.g: **Bearing:** 02 B 140M EX or 02 B 503 EX **Cartridge:** 02 C 140M EX or 02 C 30 EX

2) Total movement tabulated. Maximum offset from centreline half this amount.

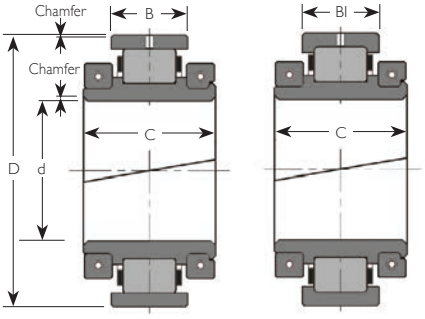
* Add 'OTL' to reference for cartridge for ATL seals if the cartridge for felt seals with the same bore size is also marked*, eg 02 C 31 OTL

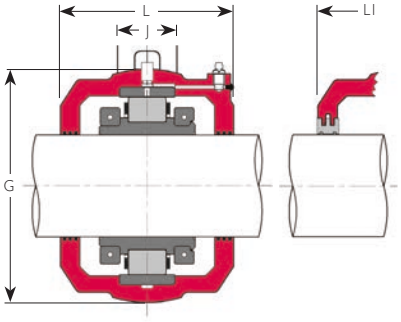




PEDESTAL DATA

Reference	H (mm)	R Min. (mm)	R Max. (mm)	Ro (mm)	S (mm)	Bolts	N (mm)	O (mm)	P (mm)	T (mm)	Mass (Kg)	Shaft Diameter d		Group Reference
P30	203	534	558	-	120	4-off M24 or 1"	610	178	51	460	76	140mm 145mm	5 3/16" 5 7/16" 5 1/2"	02 508
P31	210	546	570	-	128	4-off M24 or 1"	636	204	50	470	83	150mm 155mm 160mm	5 15/16" 6"	02 600
P32	267	428	468	-	172	4-off M30 or 1 1/4"	596	242	44	535	106	160mm 170mm	6 7/16" 6 1/2"	02E 608
P33	273	438	478	-	166	4-off M30 or 1 1/4"	636	242	44	545	116	175mm 180mm	6 15/16" 7"	02E 700
P34	305	488	528	-	190	4-off M30 or 1 1/4"	686	266	50	610	145	190mm 200mm	7 15/16" 8"	02E 800
P35	324	530	570	-	190	4-off M36 or 1 1/2"	750	280	50	650	179	220mm 230mm	9"	02E 900
P36	356	576	616	-	204	4-off M36 or 1 1/2"	812	292	54	710	212	240mm 250mm 260mm	10"	02E 1000
P37	378	514	554	101	254	8-off M30 or 1 1/4"	914	330	60	760	292	280mm	11"	02E 1100
P38	394	546	586	101	254	8-off M30 or 1 1/4"	958	330	60	790	330	300mm	12"	02E 1200





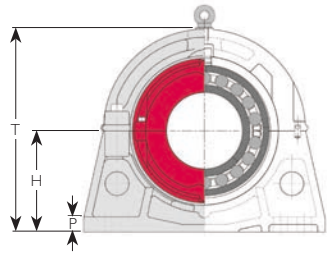
BEARING DATA

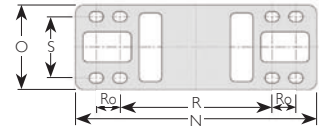
CARTRIDGE DATA

Group Reference	Shaft Diameter d		Reference (1)		D (mm)	C (mm)	B / BI (mm)	Axial Float (2) (mm)	Mass (kg)	Cartridge References (1) for felt seals	for ATL seals	G (mm)	J (mm)	L/LI (mm)	Mass (kg)
02 1300	320mm 330mm	13"	02 B 320M 02 B 330M	02 B 1300	527.05	192.0	106.4 106.4	15	150	02 C 320M 02 C 330M	02 C 1300	02 C 39	587.40	128	298 330	172
02 1400	340mm 350mm 360mm	14"	02 B 340M 02 B 350M 02 B 360M	02 B 1400	565.15	200.0	115.9 115.9	16	182	02 C 340M 02 C 350M 02 C 360M	02 C 1400	02 C 40	628.70	146	305 342	186
02 1500	380mm	15"	02 B 380M	02 B 1500	584.20	200.0	111.1 111.1	16	186	02 C 380M	02 C 1500	02 C 41	647.70	146	305 342	209
02 1600	400mm	16"	02 B 400M	02 B 1600	615.95	200.0	115.9 115.9	16	209	02 C 400M	02 C 1600	02 C 42	685.80	146	324 350	254
02 1700	420mm	17"	02 B 420M	02 B 1700	647.70	200.0	119.1 119.1	17	241	02 C 420 M	02 C 1700	02 C 43	717.60	146	324 356	264
02 1800	440mm 460mm	18"	02 B 440M 02 B 460M	02 B 1800	666.75	200.0	115.9 115.9	17	250	02 C 440M 02 C 460M	02 C 1800	02 C 44	733.40	146	324 356	265
02 1900	480mm	19"	02 B 480M	02 B 1900	698.50	223.0	119.1 119.1	17	263	02 C 480M	02 C 1900	02 C 45	762.00	146	338 374	272
02 2000	500mm	20"	02 B 500M	02 B 2000	717.55	226.0	115.9 115.9	17	272	02 C 500M	02 C 2000	02 C 46	787.40	146	350 374	323
02 2100	530mm	21"	02 B 530M	02 B 2100	762.00	229.0	119.1 119.1	18	309	02 C 530M	02 C 2100	02 C 47	831.90	150	350 374	351
02 2200	560mm	22"	02 B 560M	02 B 2200	793.75	233.0	122.2 122.2	18	336	02 C 560M	02 C 2200	02 C 48	866.80	152	356 380	379
02 2300	580mm	23"	02 B 580M	02 B 2300	812.80	232.0	119.1 119.1	16	340	02 C 580M	02 C 2300	02 C 49	882.70	152	356 380	386
02 2400	600mm	24"	02 B 600M	02 B 2400	838.20	214.0	119.1 119.1	18	381	02 C 600M	02 C 2400	02 C 50	914.40	152	388 394	454

1) Add 'EX' or 'GR' to reference for expansion or fixed type respectively, e.g: **Bearing:** 02 B 320M EX or 02 B 1300 EX **Cartridge:** 02 C 320M EX or 02 C 39 EX

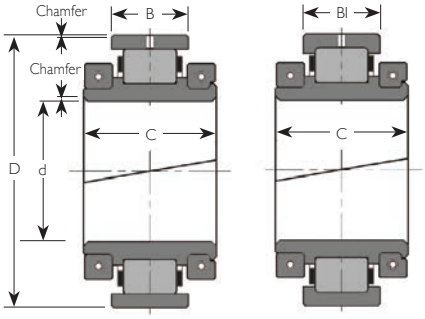
2) Total movement tabulated. Maximum offset from centreline half this amount.

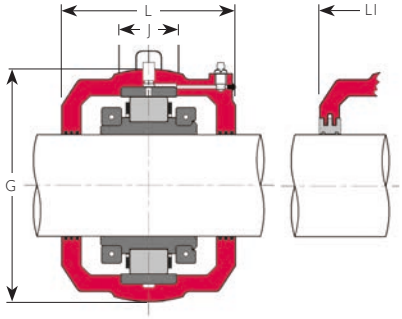




PEDESTAL DATA

Reference	H (mm)	R Min. (mm)	R Max. (mm)	Ro (mm)	S (mm)	Bolts	N (mm)	O (mm)	P (mm)	T (mm)	Mass (Kg)	Shaft Diameter d		Group Reference
P39	419	590	630	101	210	8-off M30 or 1 1/4"	1016	292	64	840	383	320mm 330mm	13"	02 1300
P40	451	640	680	102	280	8-off M36 or 1 1/2"	1092	368	67	900	429	340mm 350mm 360mm	14"	02 1400
P41	464	662	702	102	280	8-off M36 or 1 1/2"	1092	368	67	925	445	380mm	15"	02 1500
P42	495	710	750	102	280	8-off M36 or 1 1/2"	1168	368	70	990	537	400mm	16"	02 1600
P43	514	748	788	102	280	8-off M36 or 1 1/2"	1194	368	70	1030	564	420mm	17"	02 1700
P44	533	768	808	104	280	8-off M36 or 1 1/2"	1244	368	73	1070	564	440mm 460mm	18"	02 1800
P45	552	792	832	115	280	8-off M36 or 1 1/2"	1270	368	76	1110	690	480mm	19"	02 1900
P46	572	824	864	115	280	8-off M36 or 1 1/2"	1296	368	80	1145	677	500mm	20"	02 2000
P47	591	870	910	114	280	8-off M36 or 1 1/2"	1398	368	83	1180	905	530mm	21"	02 2100
P48	616	904	956	114	280	8-off M42 or 1 3/4"	1422	382	86	1230	965	560mm	22"	02 2200
P49	635	932	984	115	280	8-off M42 or 1 3/4"	1448	382	90	1270	1000	580mm	23"	02 2300
P50	673	984	1036	114	280	8-off M42 or 1 3/4"	1524	382	92	1345	1050	600mm	24"	02 2400





Group Ref.	Shaft Diameter d	
03 400	100mm	3 15/16"
		4"
03 408	110mm	4 7/16"
	120mm	4 1/2"
03 500	130mm	4 15/16"
		5"
03 508	140mm	5 7/16"
		5 1/2"
03 600	150mm	5 15/16"
		6"
03 608	160mm	6 7/16"
	170mm	6 1/2"
03 700	180mm	6 15/16"
		7"
03 800	190mm	7 15/16"
	200mm	8"
03 900	220mm	9"
03 1000	240mm	10"
	250mm	
	260mm	

BEARING DATA

Reference (1)		D (mm)	C (mm)	B/Bl (mm)	Axial Float (2) (mm)	Mass (kg)
03 B 100M	03 B 315 03 B 400	254.00	136.0	84.2 84.2	11	30
03 B 110M 03 B 120M	03 B 407 03 B 408	266.70	147.0	87.3 87.3	11	36.0
03 B 130M	03 B 415 03 B 500	279.40	140.0	73.1 84.2	11	36.0
03 B 140M	03 B 507 03 B 508	304.80	147.0	79.4 90.5	12	44.0
03 B 150M	03 B 515 03 B 600	330.20	160.0	81.0 96.9	13	57.0
03 B 160M 03 B 170M	03 B 607 03 B 608	355.60	171.0	103.2 103.2	14	72.0
03 B 180M	03 B 615 03 B 700	374.65	178.0	92.1 108.8	15	79.0
03 B 190M 03 B 200M	03 B 715 03 B 800	419.10	191.0	97.7 118.3	16	105
03 B 220M	03 B 900	469.90	212.0	109.6 131.8	18	145
03 B 240M 03 B 250M 03 B 260M	03 B 1000	482.60	211.0	105.6 124.6	18	150

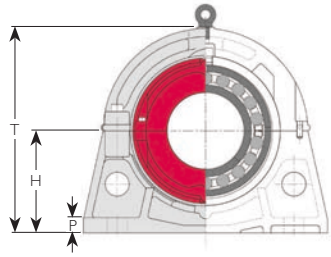
CARTRIDGE DATA

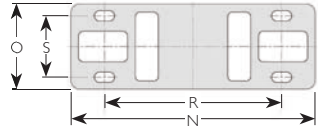
Cartridge References (1) for felt seals	for ATL seals	Principal Dimensions G (mm)	J (mm)	L/ Ll (mm)	Mass (kg)
03 C 100M	03 C 315 03 C 400	03 C 54	308.00	95	200 206	41
03 C 110M 03 C 120M	03 C 407 03 C 408	03 C 55	323.85	102	210 222	46
03 C 130M	03 C 415 03 C 500	03 C 56	323.85	102	214 222	48
03 C 140M	03 C 507 03 C 508	03 C 57	355.60	108	216 230	52
03 C 150M	03 C 515 03 C 600	03 C 58	393.70	114	232 254	70
03 C 160M 03 C 170M	03 C 607 03 C 608	03 C 59	422.30	120	244 268	81
03 C 180M	03 C 615 03 C 700	03 C 60	431.80	132	254 284	87
03 C 190M 03 C 200M	03 C 715 03 C 800	03 C 61	489.00	146	270 300	109
03 C 220M	03 C 900	03 C 62	546.10	165	298 334	155
03 C 240M 03 C 250M 03 C 260M*	03 C 1000	03 C 63*	558.80	165	298 334	161

1) Add 'EX' or 'GR' to reference for expansion or fixed type respectively, e.g: **Bearing:** 03 B 100M EX or 03 B 315 EX **Cartridge:** 03 C 100M EX or 03 C 54 EX

2) Total movement tabulated. Maximum offset from centreline half this amount.

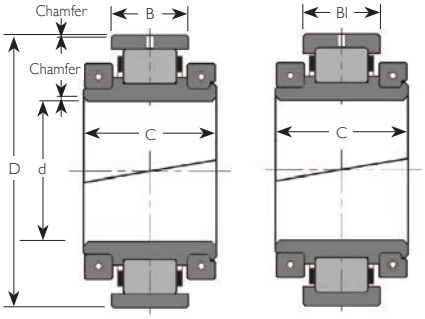
* Add 'OTL' to reference for cartridge for ATL seals if the cartridge for felt seals with the same bore size is also marked*, eg 03 C 63 OTL

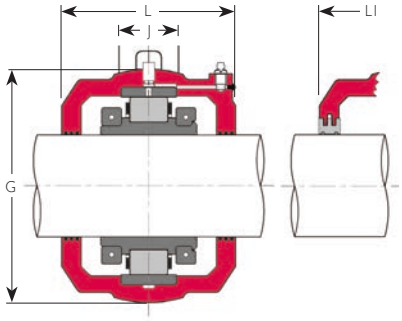




PEDESTAL DATA

Reference	H (mm)	R Min. (mm)	R Max. (mm)	Ro (mm)	S (mm)	Bolts	N (mm)	O (mm)	P (mm)	T (mm)	Mass (Kg)	Shaft Diameter d		Group Reference
P54	191	426	450	-	82	4-off M24 or 7/8"	514	152	38	405	61	100mm	3 15/16" 4"	03 400
P55	197	446	470	-	88	4-off M24 or 1"	534	166	38	425	69	110mm 120mm	4 7/16" 4 1/2"	03 408
P56	203	458	482	-	96	4-off M24 or 1"	546	166	48	435	74	130mm	4 15/16" 5"	03 500
P57	229	494	534	-	102	4-off M30 or 1 1/4"	622	178	54	485	97	140mm	5 7/16" 5 1/2"	03 508
P58	254	538	578	-	120	4-off M30 or 1 1/4"	666	204	57	535	142	150mm	5 15/16" 6"	03 600
P59	267	608	648	-	140	4-off M30 or 1 1/4"	736	228	60	570	162	160mm 170mm	6 7/16" 6 1/2"	03 608
P60	279	616	656	-	152	4-off M30 or 1 1/4"	762	254	64	580	172	180mm	6 15/16" 7"	03 700
P61	311	616	656	-	172	4-off M36 or 1 1/2"	838	266	67	655	223	190mm 200mm	7 15/16" 8"	03 800
P62	349	716	756	-	178	4-off M42 or 1 3/4"	952	280	76	730	309	220mm	9"	03 900
P63	394	650	690	-	304	4-off M42 or 1 3/4"	914	406	76	790	392	240mm 250mm 260mm	10"	03 1000





Group Reference	Shaft Diameter d	
03E 1100	280mm	11"
03 1200	290mm 300mm	12"
03 1300	320mm	13"
03E 1400	340mm 360mm	14"
03 1500	380mm 400mm	15"
03E 1700	420mm 440mm	17"
03E 1800	460mm	18"
03 2000	500mm 530mm	20"
03E 2200	560mm	22"
03E 2300	600mm	23"

BEARING DATA

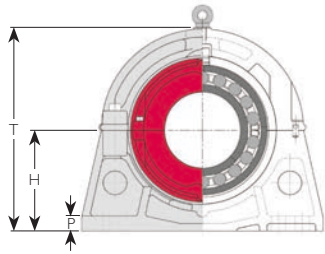
Reference (1)		D (mm)	C (mm)	B/Bl (mm)	Axial Float (2) (mm)	Mass (kg)
03E B 280M	03E B 1100	495.30	244.0	139.7 139.7	20	182
03 B 290M 03 B 300M	03 B 1200	558.80	244.0	139.7 139.7	19	238
03 B 320M	03 B 1300	622.30	272.0	160.4 160.4	22	327
03E B 340M 03E B 360M	03E B 1400	615.95	279.0	158.0 158.0	22	318
03 B 380M 03 B 400M	03 B 1500	685.80	292.0	166.7 166.7	23	431
03E B 420M 03E B 440M	03E B 1700	700.00	284.0	160.0 160.0	23	395
03E B 460M	03E B 1800	740.00	294.0	170.0 170.0	24	431
03 B 500M 03 B 530M	03 B 2000	850.90	300.0	187.4 187.4	26	730
03E B 560M	03E B 2200	863.60	310.0	196.9 196.9	28	635
03E B 600M	03E B 2300	890.00	310.0	184.0 184.0	27	680

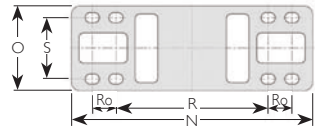
CARTRIDGE DATA

Cartridge References (1) for felt seals	for ATL seals	G (mm)	J (mm)	L/Ll (mm)	Mass (kg)
03E C 280M	03E C 1100	03E C 83	571.50	165	356 356	204
03 C 290M 03 C 300M	03 C 1200	03 C 65	641.40	165	346 370	239
03 C 320M	03 C 1300	03 C 66	717.60	170	368 418	273
03E C 340M 03E C 360M	03E C 1400	03E C 86	704.90	196	432 432	385
03 C 380M 03 C 400M	03 C 1500	03 C 68	774.70	202	400 438	399
03E C 420M 03E C 440M	03E C 1700	03E C 89	788.00	200	440 442	408
03E C 460M	03E C 1800	03E C 90	840.00	200	450 450	454
03 C 500M 03 C 530M	03 C 2000	03 C 94	958.90	204	495 508	770
03E C 560M	03E C 2200	03E C 94	958.90	204	490 490	671
03E C 600M	03E C 2300	03E C 95	990.00	204	490 490	720

1) Add 'EX' or 'GR' to reference for expansion or fixed type respectively, e.g: Bearing: 03 B 280M EX or 03 B 1100 EX Cartridge: 03 C 280M EX or 03 C 83 EX

2) Total movement tabulated. Maximum offset from centreline half this amount.

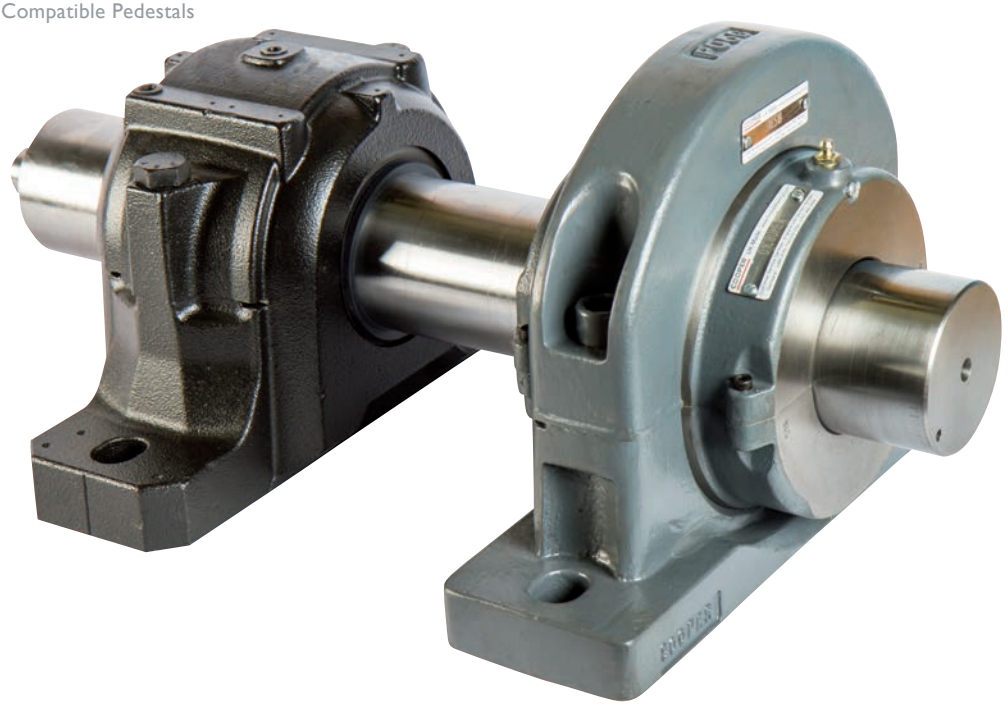




PEDESTAL DATA

Reference	H (mm)	R Min. (mm)	R Max. (mm)	Ro (mm)	S (mm)	Bolts	N (mm)	O (mm)	P (mm)	T (mm)	Mass (Kg)
P83	368	482	522	120	178	8-off M36 or 1 1/2"	940	280	70	785	205
P65	457	654	694	101	330	8-off M36 or 1 1/2"	1092	420	76	915	586
P66	518	742	782	108	266	8-off M36 or 1 1/2"	1194	356	80	1035	655
P86	470	634	686	134	190	8-off M42 or 1 3/4"	1220	318	82	1000	464
P68	559	780	832	115	292	8-off M42 or 1 3/4"	1270	394	92	1120	859
P89	508	664	716	150	210	8-off M48 or 2"	1270	360	90	1075	482
P90	550	754	806	150	220	8-off M48 or 2"	1370	380	95	1165	705
P94	622	914	966	165	242	8-off M56 or 2 1/4"	1600	406	102	1340	1000
P94	622	914	966	165	242	8-off M56 or 2 1/4"	1600	406	102	1340	1000
P95	622	914	966	165	242	8-off M56 or 2 1/4"	1600 184.0	406	102	1340	930

Shaft Diameter d		Group Reference
280mm	11"	03E 1100
290mm 300mm	12"	03 1200
320mm	13"	03 1300
340mm 360mm	14"	03E 1400
380mm 400mm	15"	03 1500
420mm 440mm	17"	03E 1700
460mm	18"	03E 1800
500mm 530mm	20"	03 2000
560mm	22"	03E 2200
600mm	23"	03E 2300



COOPER 'COMPATIBLE' PEDESTALS

Cooper SNC500, SDC3100 and SAFC500 Series pedestals are designed for use where interchangeability with SN500, SD3100 and SAF500 series pillow block units is required. They may be used to economically replace existing solid bearings, or may be incorporated into new machinery where the envelope dimensions of these units are desirable.

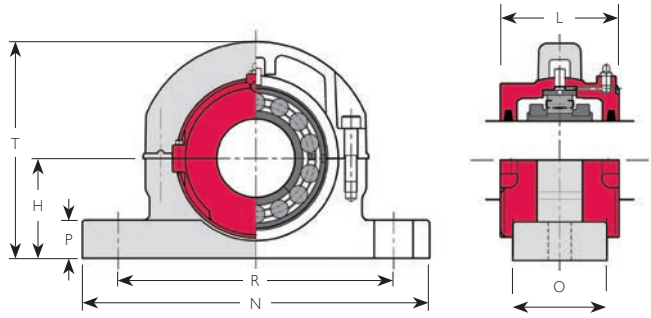
Generally, the bearings and cartridges are standard 01, 01E, 02 or 02E Series units. In some cases cartridges and bearings of reduced outside diameter are used in order to provide adequate pedestal base thickness. However, the load ratings of the standard bearings of the same bore size still apply.

The Cooper pedestals have bolt hole spacings and heights to centres corresponding to the equivalent industry standard units for solid bearings. However, the footprint, overall pedestal height and length on shaft may differ and should be checked against available space.

The tables on the following pages list the Cooper pedestals with the bearing and cartridge of the same bore size as the shaft diameter that is commonly accommodated in the equivalent pillow block with a solid bearing mounted on an adaptor sleeve. These pedestals may also be used with alternative sizes of Cooper bearing. Bearings and cartridges of the same group size (as tabulated in the main bearing, cartridge and pedestal pages) may be accommodated in the same pedestal. In many cases, bearings and cartridges of different series may also be accommodated in the these pedestals, providing an even wider choice of bore sizes where the pedestal dimensions are appropriate and loading conditions permit.

SNC500 pedestals are manufactured from grade EN-GJL-250 grey iron to BS EN 1561 : 1997 as standard. SAFC500 and SDC3100 pedestals are manufactured from grade EN-GJS-400/18 ductile iron to BS EN 1563 : 1997 as standard.

The Cooper "Compatible" pedestal range is also available as an angled joint version. Refer to page 52.



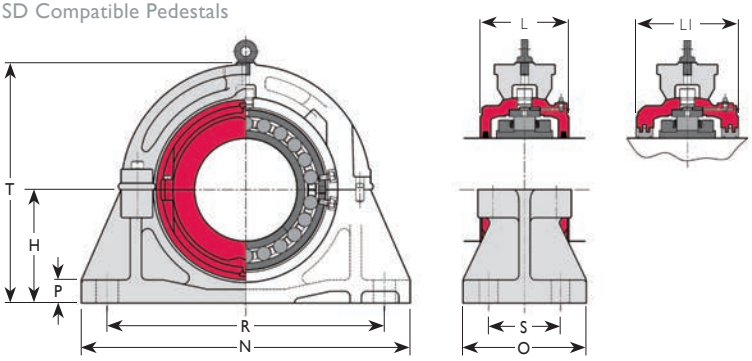
SN COMPATIBLE PEDESTALS

Shaft Diameter	Bearing Reference(1)	Reference(1) (pedestal only)	H (mm)	R Min(mm)	R Max (mm)	Bolt size	N (mm)	O (mm)	P (mm)	T (mm)	L(2) (mm)	Pedestal Mass (kg)
60	01E B 60M	SNC513	80	226	242	M16	280	70	32	180	104	4.9
65	01E B 65M	SNC515	80	226	242	M16	280	70	32	180	104	4.9
70	01E B 70M	SNC516	95	254	266	M20	315	90	38	208	114	7.3
75	01E B 75M	SNC517	95	254	266	M20	315	90	38	208	114	7.3
80	01E B 80M	SNC518	100	284	296	M20	345	100	32	240	136	13.4
85	01E B 85M	SNC519*	112	284	296	M20	345	100	44	252	136	15.2
90	01E B 90M	SNC520*	112	312	328	M24	380	90	44	252	136	13.3
100	01E B 100M	SNC522*	125	342	366	M24	420	102	52	272	134	14.7
110	01 B 110M	SNC524*	140	344	356	M24	410	120	45	310	142	19.5
115	01 B 115M	SNC526*	150	372	388	M24	450	130	50	320	142	22.7
125	01 B 125M	SNC528*	150	414	426	M30	500	150	50	360	156	38.2
135	01 B 135M	SNC530*	160	444	456	M30	530	160	56	386	168	40
140	01 B 140M	SNC532*	170	462	478	M30	558	178	41	391	168	52

1) For full references of bearings and cartridges see pages 32 to 38

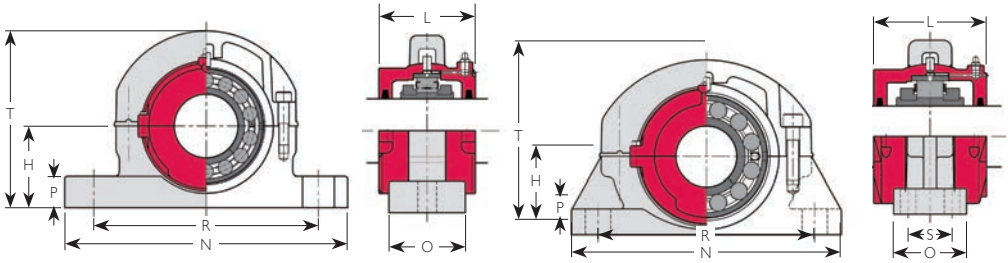
2) Applies for cartridges with either single seal groove or TL seals

*Pedestals equivalent to these sizes are also available in the Cooper SSNC500 range. Cooper SSNC500 pedestals have the same height to centre as the SNC500 range but do not have slots for the holding-down bolts. They may be drilled by the user for either 2 or 4 bolts. The SSNC500 pedestals are manufactured from ductile iron. Please consult Cooper for full dimensional and loading data.



SD COMPATIBLE PEDESTALS

Shaft Diameter d (mm)	References: Bearing Expansion/ Fixed	References: Standard Cartridge Expansion/ Fixed	References: TL Cartridge Expansion/ Fixed	Pedestal Only	H (mm)	R Min. (mm)	R Max. (mm)	S (mm)	Bolt Size	N (mm)	O (mm)	P (mm)	T (mm)	L (mm)	LI (mm)	Masses (kg) Pedestal only	Masses (kg) Complete Unit
150	01 B 150M EX 01 B 150M GR 02 B 150M EX10 02 B 150M GR11	01C 150M EX 01C 150M GR 02C 150M EX11 02C 150M GR11	01C 10 EX 01C 10 GR 02C 31 EX20 02C 31 GR22	SDC3134 PN3112	170	424	436	100	M24	510	178	40	401 401	174 204	174 204	48 53	98 109
160	01E B 160M EX 01E B 160M GR 02 B 600-160M EX 02 B 600-160M GR	01C 160M EX 01C 160M GR 02C 600-160M EX 02C 600-160M GR	01C 11 EX 01C 11 GR 02C 31 EX OTL 02C 31 GR OTL	SDC3136 PN3113	180	438	462	110	M24	530	190	40	396 440	172 204	192 204	50 69	105 178
170	01E B 170M EX 01E B 170M GR 02E B 170M EX10 02E B 170M GR13	01C 170M EX 01C 170M GR 02C 170M EX10 02C 170M GR10	01C 12 EX 01C 12 GR 02C 32 EX11 02C 32 GR13	SDC3138 PN3210	190	468	492	120	M24	560	200	40	425 457	172 206	200 232	59 83	113 164
180	01E B 180M EX 01E B 180M GR 02E B 180M EX 02E B 180M GR	01C 180M EX 01C 180M GR 02C 180M EX 02C 180M GR	01C 12 EX 01C 12 GR 02C 33 EX 02C 33 GR	SDC3140 PN3312	210	503	517	130	M30	600	210	40	445 482	172 222	200 242	66 109	120 222
200	01E B 200M EX 01E B 200M GR 02E B 200M EX 02E B 200M GR	01C 200M EX 01C 200M GR 02C 200M EX10 02C 200M GR13	01C 13 EX 01C 13 GR 02C 34 EX10 02C 34 GR15	SDC3144 PN3410	220	533	547	140	M30	640	240	45	467 525	172 235	200 258	87 115	153 238
220	01E B 220M EX 01E B 220M GR 02E B 220M EX 02E B 220M GR	01C 220M EX 01C 220M GR 02C 220M EX 02C 220M GR	01C 14 EX 01C 14 GR 02C 35 EX 02C 35 GR	SDC3148 PN3510	240	593	607	150	M30	700	250	45	510 564	178 242	216 274	96 141	174 328
240	01E B 240M EX 01E B 240M GR 02E B 240M EX 02E B 240M GR	01C 240M EX 01C 240M GR 02C 240M EX 02C 240M GR	01C 15 EX 01C 15 GR 02C 36 EX 02C 36 GR	SDC3152 PN3610	260	642	658	160	M36	770	280	49	552 614	188 248	222 280	132 174	230 390
260	01E B 260M EX 01E B 260M GR 02E B 260M EX 02E B 260M GR	01C 260M EX 01C 260M GR 02C 260M EX 02C 260M GR	01C 16 EX 01C 16 GR 02C 36 EX10 02C 36 GR11	SDC3156 PN3612	280	662	678	160	M36	790	280	55	591 634	204 248	232 300	160 190	280 375
280	01E B 280M EX 01E B 280M GR 02E B 280M EX 02E B 280M GR	01C 280M EX 01C 280M GR 02C 280M EX 02C 280M GR	01C 16 EX 01C 16 GR 02C 37 EX 02C 37 GR	SDC3160 PN3711	300	702	718	190	M36	830	310	55	611 678	204 264	232 300	175 247	295 493
300	01E B 300M EX 01E B 300M GR 02E B 300M EX 02E B 300M GR	01C 300M EX 01C 300M GR 02C 300M EX 02C 300M GR	01C 17 EX 01C 17 GR 02C 38 EX 02C 38 GR	SDC3164 PN3811	320	742	758	200	M36	880	320	60	663 714	216 268	248 306	208 252	354 534



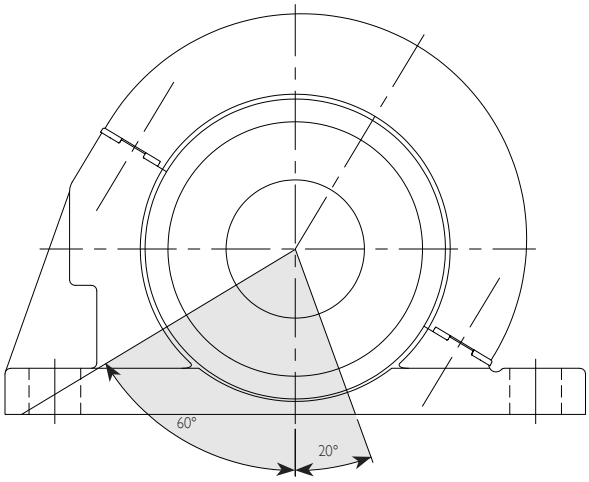
SAF COMPATIBLE PEDESTALS

Shaft Diameter d (inches)	Bearing Reference(1)	Reference(1) (pedestal only)	H	R Min	R Max	S	Bolts No.	Bolts Size	N	O	P	T	L(2)	Pedestal Mass(kg)
1 15/16	01E B 115	SAFC511	2¾"	7 3/8"	7 7/8"	-	2	5/8"	9 5/8"	2¾"	7/8"	6 1/8"	3 13/16"	4.3
2 3/16	01E B 203	SAFC513	3"	8 1/8"	9½"	-	2	5/8"	11"	3 1/8"	1"	7"	4 1/16"	6.4
2 7/16	01E B 207	SAFC515	3¼"	8 5/8"	9 5/8"	-	2	5/8"	11¼"	3 1/8"	1 1/8"	7¼"	4 1/16"	7.4
2 11/16	01E B 211	SAFC516	3½"	9 5/8"	11"	-	2	¾"	13"	3½"	1 3/16"	7 7/8"	4½"	9.7
2 15/16	01E B 215 02 B 215	SAFC517 FSAFC517	3¾" 3¾"	9 7/8" 10"	11" 10 7/8"	- 2 3/16"	2 4	¾" 5/8"	13" 13"	3½" 3½"	1 7/16" 1¼"	8 3/16" 8½"	4½" 5½"	11.5 11.5
3 3/16	01E B 303	SAFC518	4"	10 3/8"	11 5/8"	-	2	¾"	13 3/8"	3 7/8"	1¼"	9½"	5 5/16"	15.4
3 7/16	01E B 307 02 B 307	SAFC520 FSAFC520	4½" 4½"	11 5/8" 11 5/8"	13 1/8" 13 1/8"	- 2 3/8"	2 4	7/8" ¾"	15¼" 15¼"	3 7/8" 4 7/8"	1¾" 1¾"	10" 10¼"	5 5/16" 6 1/16"	19.3 15.0
3 15/16	02 B 315	SAFC522	4 15/16"	12 5/8"	14½"	2¾"	4	¾"	16½"	4¾"	2"	11 5/8"	5¾"	19.5
4 7/16	02 B 407	SAFC526	6"	14 5/8"	16"	3¼"	4	7/8"	18 3/8"	5 1/8"	2 3/8"	14¼"	6 3/8"	43
4 15/16	02 B 415 (3)	SAFC528 (3)	6"	16"	17 1/8"	3 3/8"	4	1"	20 1/8"	5 7/8"	1 3/8"	15	7¼"	54
5 7/16	02 B 507	SAFC532	6 11/16"	17 3/8"	19¼"	3¾"	4	1"	22"	6¼"	2 11/16"	16¾"	7 3/8"	74
5 15/16	02 B 515	SAFC534	7 1/16"	19 3/8"	21 5/8"	4¼"	4	1"	24¾"	6¾"	2¾"	17¼"	8"	83

1) For full references of bearings and cartridges see pages 32 and 38 to 40
2) Applies for cartridges with either single seal groove or TL seals
3) Special bearing and cartridge required for this size. Bearing ratings are as for standard 02 B 415, but outside diameters of bearing and cartridge differ from standard.

References:

Fixed-type bearing:	02 B 415 GR 16
Expansion-type bearing:	02 B 415 EX 16
Fixed-type cartridge (for TL seals):	02 C 10 GR 21
Expansion-type cartridge (for TL seals):	02 C 10 EX 21





COOPER ANGLED PEDESTALS

Cooper SNQ, SDQ and SAFQ Series pedestals are designed for use where interchangeability with SNC500, SD500 and SAF500 series pillow block units is required, and where there is particularly difficult access for mounting the pedestal base.

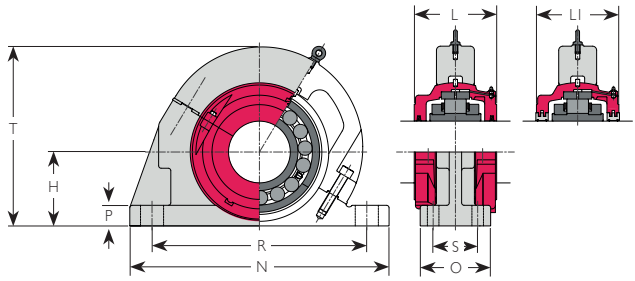
The angled joint of the pedestal allows the pedestal base to be slid into position under the shaft without the need to hoist it, where there are no other means (such as removable packing) to create extra height between the mounting structure and the shaft and no possibility to put the pedestal base under the shaft in an area of greater clearance and move axially into position.

As with our conventional-style SNC, SDC and SAFC pedestals (see page **), the SNQ, SDQ and SAFQ pedestals have bolt hole spacings and heights to centres corresponding to the equivalent industry standard units for unsplit bearings. However, the footprint, overall height and length on shaft may differ and should be checked against the available space.

The tables on the following pages list the Cooper pedestals with the bearings and cartridges of the same bore size as the shaft diameter that is commonly accommodated in the equivalent pillow block with an unsplit bearing mounted on an adaptor sleeve. These pedestals may also be used with alternative sizes of Cooper bearings in a similar way to the conventional style pedestals.

Cooper SNQ, SDQ and SAFQ pedestals are manufactured from grade EN-GJS-400/18 ductile iron to BS EN 1563 : 1997 as standard, and have tenon-style joints.

50% of the static load rating (Cor) of the bearing with which the pedestal is listed in the following table may be applied when the load is applied over the area shaded in the diagram above. Refer to Cooper technical department for higher loading or load at other angles.



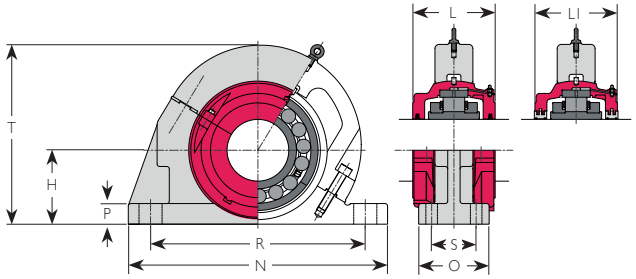
SN COMPATIBLE ANGLED PEDESTALS

Shaft Diameter (2) (mm)	Bearing Reference (1)	Reference (1) (pedestal only)	H (mm)	R Min (mm)	R Max (mm)	S (mm)	Bolts No.	Bolts Size	N (mm)	O (mm)	P (mm)	T (mm)	L (mm)	LI (mm)	Pedestal Mass (kg)
50	01EB50M	SNQ511	70	203	219	-	2	M16	255	60	25	158	98	98	3.9
75	01EB75M	SNQ517	95	254	280	-	2	M20	315	90	38	208	114	114	9.7
90	01EB90M	SNQ520	112	312	328	-	2	M24	380	90	44	253	136	136	17.5
100	01EB100M	SNQ522	125	342	366	-	2	M24	420	102	52	274	134	134	21.7
110	01B110M	SNQ524	140	344	356	-	2	M24	410	120	45	310	142	142	26.1
115	01B115M	SNQ526	150	372	388	-	2	M24	450	130	50	320	142	142	33.3
125	01B125M	SNQ528	150	414	426	-	2	M30	500	150	38	358	156	156	42.9
125	01B125M	SNQ528	150	414	426	-	2	M30	500	150	38	358	156	156	42.9
135	01B135M	SNQ530	160	444	456	-	2	M30	530	160	45	380	168	168	52.8
140	01B140M	SNQ532	170	462	478	-	2	M30	558	178	41	390	168	168	59.7

SD COMPATIBLE ANGLED PEDESTALS

150	01B150M	SDQ3134	170	424	436	100	4	M24	510	178	38	399	174	174	55.9
160	01EB160M	SDQ3136	180	438	462	110	4	M24	530	190	40	393	172	192	56.8
180	01EB180M	SDQ3140	210	503	517	130	4	M30	600	210	40	442	172	200	77.9
200	01EB200M	SDQ3144	220	533	547	140	4	M30	640	240	45	463	172	200	99.4
220	01EB220M	SDQ3148	240	593	607	150	4	M30	700	250	45	507	178	216	112.6

1) For full references of bearings and cartridges see pages 32 to 34 and 38 to 40
2) Shaft diameters shown are the most common, alternative sizes in the same group are available



SAF COMPATIBLE ANGLED PEDESTALS

Shaft Diameter (2) (mm)	Bearing Reference (1)	Reference (1) (pedestal only)	H (mm)	R Min (mm)	R Max (mm)	S (mm)	Bolts No.	Bolts Size	N (mm)	O (mm)	P (mm)	T (mm)	L (mm)	LI (mm)	Pedestal Mass (kg)
2 3/16"	01EB203	SAFQ513	3"	8 1/8"	9 1/2"	-	2	5/8"	11"	3 1/8"	1"	7"	4 1/16"	4 1/16"	5.8
2 11/16"	01EB211	SAFQ516	3 1/2"	9 5/8"	11"	-	2	3/4"	13"	3 1/2"	1 3/16"	7 7/8"	4 1/2"	4 1/2"	8.3
2 15/16"	02B215	FSAFQ517	3 3/4"	10"	10 7/8"	2 3/16"	4	5/8"	13"	3 1/2"	1"	9 5/16"	5 1/2"	5 1/2"	11.7
3 7/16"	02B307	FSAFQ520	4 1/2"	11 5/8"	13 1/8"	2 3/8"	4	3/4"	15 1/4"	4 3/8"	1 3/4"	10 3/8"	6 1/16"	6 1/16"	18.1
3 15/16"	02B315	SAFQ522	4 15/16"	12 5/8"	14 1/2"	2 3/4"	4	3/4"	16 1/2"	4 3/4"	1 9/16"	11 5/8"	5 3/4"	5 3/4"	22.9
4 7/16"	02B407	SAFQ526	6"	14 7/8"	16"	3 1/4"	4	7/8"	18 3/8"	5 1/8"	2 3/8	12 15/16"	6 3/8"	6 3/8"	34.6
4 15/16"	02B415 (3)	SAFQ528 (3)	6"	16"	17 1/8"	3 3/8"	4	1"	20 1/8"	5 7/8"	1 3/8"	13 7/8"	7 1/4"	7 1/4"	40.9
5 7/16"	02B507	SAFQ532	6 11/16"	17 3/8"	19 1/4"	3 3/4"	4	1"	22"	6 1/4"	2"	15 3/4"	7 3/8"	7 3/8"	51.6
5 7/16"	02B507	SAFQ532	6 11/16"	17 3/8"	19 1/4"	3 3/4"	4	1"	22"	6 1/4"	2"	15 3/4"	7 3/8"	7 3/8"	51.6
5 15/16"	02B515	SAFQ534	7 1/16"	19 3/8"	21 5/8"	4 1/4"	4	1"	24 3/4"	6 3/4"	2"	17 1/8"	8"	8"	77.3

1) For full references of bearings and cartridges see pages 32 to 34 and 38 to 40
2) Shaft diameters shown are the most common, alternative sizes in the same group are available
3) Special bearing and cartridge required for this size. Bearing ratings are as for stand ard 02 B 415 but outside diameters of bearing and cartridge differ from standard.

References:
- Fixed-type bearing: 02 B 415 GR 16
- Expansion-type bearing: 02 B 415 EX 16
- Fixed-type cartridge (for TL seals): 02 C 10 GR 21
- Expansion-type cartridge (for TL seals): 02 C 10 EX 21

FLANGES

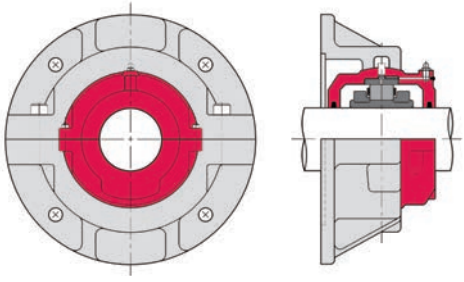
Flanges provide a simple means of mounting Cooper split roller bearings against a vertical or horizontal face or bulkhead.

The most common types of flange are the round flange as shown on pages 56 to 60 and the more compact square flange as shown on page 61. Standard round flanges and square flanges are made from grey iron and ductile iron respectively. Alternative materials and designs are available.

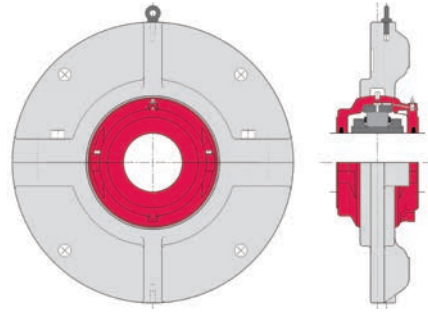
Flanges are common between expansion (EX) and fixed (GR) units.

Maximum radial loads for standard units are 26% of static rating (Cor) when used with 01 or 02 Series bearings, and 20% of static rating when used with 01E, 02E and 100 Series bearings. Maximum axial loads are 25% of the axial rating (Ca) of 01 or 02 Series bearings, 18% for 100 Series and 13% for 01E or 02E Series bearings. These loadings can be exceeded considerably with modified construction or materials, and depending on loading direction.

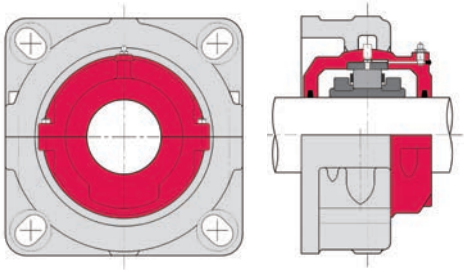
The bulkhead or support plate on which the flange is mounted must be of adequate strength and rigidity to support the imposed load with little distortion of the flange mounting area. Square flanges are more appropriate for steel frames or skid mounted units. The flatness of the mounting surface should be to tolerance IT7 according to ISO 1101 and the surface roughness not more than 12.5µm Ra.



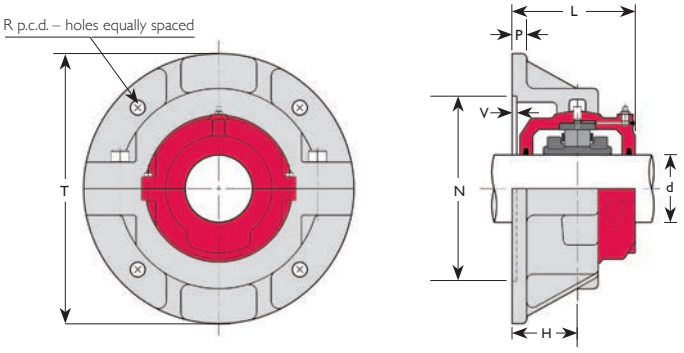
ROUNDFLANGE



FLATFLANGE



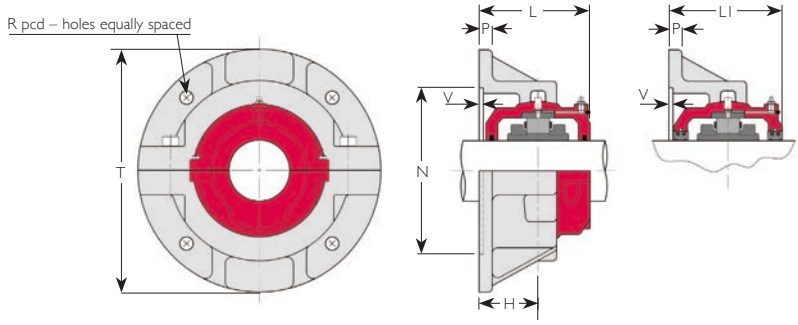
SQUARE (DF) FLANGE



100 SERIES

Group Reference	Shaft Diameter d	Bearing Reference (1)		Flange Reference	T(2) (mm)	Bolts	R (mm)	P (mm)	H (mm)	N(3) (mm)	V(3) (mm)	L (mm)	LI (mm)	Mass (flange only) (kg)
100 300	75mm	2 15/16" 3"	100 B 75M	100 B 215 100 B 300	F03	260	4-off M12 or 1/2"	218	16	67	166.69	3	119	119	9.1
100 307	85mm	3 7/16"	100 B 85M	100 B 307	F04	286	4-off M12 or 1/2"	242	16	73	192.09	3	130	130	12.4
100 400	100mm	3 15/16" 4"	100 B 100M	100 B 315 100 B 400	F05	330	4-off M16 or 5/8"	274	19	79	215.9	3	147	147	19.4
100 408	110mm 115mm	4 7/16" 4 1/2"	100 B 110M 100 B 115M	100 B 407 100 B 408	F06	356	4-off M16 or 5/8"	302	19	86	244.48	3	153	153	22
100 500	120mm 125mm 130mm	4 15/16" 5"	100 B 120M 100 B 125M 100 B 130M	100 B 415 100 B 500	F07	382	4-off M16 or 5/8"	334	22	92	276.23	3	163	163	26.6
100 508	140mm	5 7/16" 5 1/2"	100 B 140M	100 B 507 100 B 508	F08	432	4-off M24 or 1"	374	22	98	314.33	3	176	176	34.9
100 600	150mm	5 15/16" 6"	100 B 150M	100 B 515 100 B 600	F09	444	4-off M24 or 1"	384	25	98	317.5	3	182	182	40.8
100 800	200mm	7-15/16" 8"	100 B 200M	100 B 715 100 B 800	F12	508	4-off M24 or 1"	438	29	108	365.13	3	194	(4)	62
100 808	220mm	-	100 B 220M	-	F13	534	4-off M24 or 1"	474	32	108	400.05	3	194	(4)	71

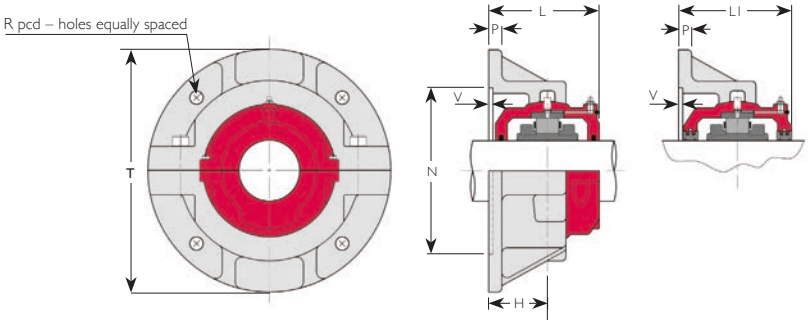
1) For full references of bearings and cartridges see page 30
2) Dimension shown is as-cast dimension. Depending upon manufacturing method used, flanges supplied may be machined 5mm smaller
3) Dimensions shown are for locating spigot for mounting flange on to. Diameter tolerance of locating spigot: f8
4) Refer to Cooper



01/01E SERIES

Group Reference	Shaft Diameter d		Bearing Reference (1)		Flange Reference	T(2) (mm)	Bolts	R (mm)	P (mm)	H (mm)	N(3) (mm)	V(3) (mm)	L (mm)	LI (mm)	Mass (flange only) (kg)
01 108	35mm 40mm	1 3-16" 1 1/4" 1 7/16" 1 1/2"	01 B 35M 01 B 40M	01 B 103 01 B 104 01 B 107 01 B 108	F01	204	4-off M12 or 1/2"	164	13	51	119.06	3	94	94	4.2
01E 200	45mm 50mm	1 11/16" 1 3/4" 1 15/16" 2"	01E B 45M 01E B 50M	01E B 111 01E B 112 01E B 115 01E B 200	F02	216	4-off M12 or 1/2"	180	13	57	136.53	3	106	106	5.1
01E 208	55mm 60mm 65mm	2 3/16" 2 1/4" 2 7/16" 2 1/2"	01E B 55M 01E B 60M 01E B 65M	01 E B 203 01 E B 204 01 E B 207 01 E B 208	F03	260	4-off M12 or 1/2"	218	16	67	166.69	3	119	119	9.1
01E 300	70mm 75mm	2 11/16" 2 3/4" 2 15/16" 3"	01E B 70M 01E B 75M	01E B 211 01E B 212 01E B 215 01 E B 300	F04	286	4-off M12 or 1/2"	242	16	73	192.09	3	130	130	12.4
01E 308	80mm 85mm 90mm	3 3/16" 3 1/4" 3 7/16" 3 1/2"	01E B 80M 01E B 85M 01E B 90M	01E B 303 01E B 304 01E B 307 01E B 308	F05	330	4-off M16 or 5/8"	274	19	79	215.9	3	147	147	19.4
01E 400	95mm 100mm 105mm	3 11/16" 3 3/4" 3 15/16" 4"	01E B 95M 01E B 100M 01E B 105M	01E B 311 01E B 312 01E B 315 01E B 400	F06	356	4-off M16 or 5/8"	302	19	86	244.48	3	153	153	22.0
01 408	110mm 115mm	4 3/16" 4 7/16" 4 1/2"	01 B 110M 01 B 115M	01 B 403 01 B 407 01 B 408	F07	382	4-off M16 or 5/8"	334	22	92	276.23	3	163	163	26.6
01 500	120mm 125mm 130mm	4 15/16" 5"	01 B 120M 01 B 125M 01 B 130M	01 B 415 01 B 500	F08	432	4-off M24 or 1"	374	22	98	314.33	3	176	176	34.9
01 508	135mm 140mm	5 3/16" 5 7/16" 5 1/2"	01 B 135M 01 B 140M	01 B 503 01 B 507 01 B 508	F09	444	4-off M24 or 1"	384	25	98	317.5	3	182	182	40.8

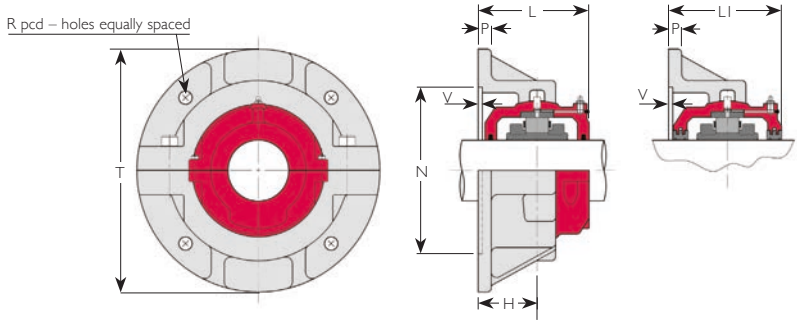
1) For full references of bearings and cartridges see pages 32 to 36
2) Dimension shown is as-cast dimension. Depending upon manufacturing method used, flanges supplied may be machined 5mm smaller.
3) Dimensions shown are for locating spigot for mounting flange on to. Diameter tolerance of locating spigot: f8



01/01E SERIES

Group Reference	Shaft Diameter d		Bearing Reference (1)		Flange Reference	T(2) (mm)	Bolts	R (mm)	P (mm)	H (mm)	N(3) (mm)	V(3) (mm)	L (mm)	LI (mm)	Mass (flange only) (kg)
01 600	150mm 160mm	5 15/16" 6"	01 B 150M 01 B 600-160M	01 B 515 01 B 600	F10	470	4-off M24 or 1"	412	25	114	346.07	3	201	201	50.2
01E 608	160mm 170mm	6 7/16" 6 1/2"	01E B 160M 01E B 608-170M	01E B 607 01E B 608	F11	496	4-off M24 or 1"	426	25	105	352.43	3	191	201	58
01E 700	170mm 175mm 180mm	6 15/16" 7"	01E B 170M 01E B 175M 01E B 180M	01E B 615 01E B 700	F12	508	4-off M24 or 1"	438	29	108	365.13	3	194	208	62
01E 800	190mm 200mm	7 15/16" 8"	01E B 190M 01E B 200M	01E B 715 01E B 800	F13	534	4-off M24 or 1"	474	32	108	400.05	3	194	208	71
01E 900	220mm 230mm	9"	01E B 220M 01E B 230M	01E B 900	F14	584	4-off M30 or 1 1/4"	512	35	117	431.8	3	206	225	85
01E 1000	240mm 250mm 260mm	10"	01E B 240M 01E B 250M 01E B 1000-260M	01E B 1000	F15	610	4-off M30 or 1 1/4"	542	35	117	463.55	3	211	228	100
01E 1100	260mm 270mm 275mm 280mm	11"	01E B 260M 01E B 270M 01E B 275M 01E B 280M	01E B 1100	F16	660	4-off M30 or 1 1/4"	584	38	124	504.83	3	226	240	116
01E 1200	290mm 300mm	12"	01E B 290M 01E B 300M	01E B 1200	F17	712	4-off M30 or 1 1/4"	626	38	133	539.75	3	241	257	119
01 1300	320mm 330mm 340mm	13"	01 B 320M 01 B 330M 01 B 1300-340M	01 B 1300	F18	812	4-off M36 or 1 1/2"	698	38	152	584.2	5	282	288	184
01 1400	340mm 350mm 360mm	14"	01 B 340M 01 B 350M 01 B 1400-360M	01 B 1400	F19	850	4-off M36 or 1 1/2"	738	40	140	610	7	270	276	207
01 1500	360mm 380mm	15"	01 B 360M 01 B 380M	01 B 1500	F20	914	8-off M30 or 1 1/4"	800	44	165	673.1	5	295	305	276
01 1600	390mm 400mm	16"	01 B 390M 01 B 400M	01 B 1600	F21	914	8-off M30 or 1 1/4"	800	44	165	673.1	5	305	308	273.0

1) For full references of bearings and cartridges see pages 32 to 36
2) Dimension shown is as-cast dimension. Depending upon manufacturing method used, flanges supplied may be machined 5mm smaller.
3) Dimensions shown are for locating spigot for mounting flange on to. Diameter tolerance of locating spigot: f8



02/02E SERIES

Group Reference	Shaft Diameter d		Bearing Reference (1)		Flange Reference	T(2) (mm)	Bolts	R (mm)	P (mm)	H (mm)	N(3) (mm)	V(3) (mm)	L (mm)	LI (mm)	Mass (flange only) (kg)
02 200	50mm	1 15/16" 2"	02 B 50M	02 B 115 02 B 200	F03	260	4-off M12 or 1/2"	218	16	67	166.69	3	124	124	9.1
02 208	60mm 65mm	2 3/16" 2 1/4" 2 7/16" 2 1/2"	02 B 60M 02 B 65M	02 B 203 02 B 204 02 B 207 02 B 208	F04	286	4-off M12 or 1/2"	242	16	73	192.09	3	136	136	12.4
02 300	70mm 75mm	2 11/16" 2 3/4" 2 15/16" 3"	02 B 70M 02 B 75M	02 B 211 02 B 212 02 B 215 02 B 300	F05	330	4-off M16 or 5/8"	274	19	79	215.9	3	149	149	19.4
02 308	80mm 85mm 90mm	3 3/16" 3 1/4" 3 7/16" 3 1/2"	02 B 80M 02 B 85M 02 B 90M	02 B 303 02 B 304 02 B 307 02 B 308	F06	356	4-off M16 or 5/8"	302	19	86	244.48	3	163	163	22.0
02 400	100mm 105mm	3 11/16" 3 3/4" 3 15/16" 4"	02 B 100M 02 B 105M	02 B 311 02 B 312 02 B 315 02 B 400	F07	382	4-off M16 or 5/8"	334	22	92	276.23	3	165	165	26.6
02 408	110mm 115mm	4 3/16" 4 7/16" 4 1/2"	02 B 110M 02 B 115M	02 B 403 02 B 407 02 B 408	F08	432	4-off M24 or 1"	374	22	98	314.33	3	179	179	34.9
02 500	120mm 125mm 130mm	4 15/16" 5"	02 B 120M 02 B 125M 02 B 130M	02 B 415 02 B 500	F10	470	4-off M24 or 1"	412	25	114	346.07	3	206	206	50

1) For full references of bearings and cartridges see pages 38 to 42
2) Dimension shown is as-cast dimension. Depending upon manufacturing method used, flanges supplied may be machined 5mm smaller
3) Dimensions shown are for locating spigot for mounting flange on to. Diameter tolerance of locating spigot: f8