9 Designations

Designation system for bearings

100	B	408	EX	C3	ALF
1DT	B	130M		C2	

Bearing type and series

100	100 series split cylindrical roller bearing
01	01 series split cylindrical roller bearing
01E	01E series split cylindrical roller bearing
02	02 series split cylindrical roller bearing
02E	02E series split cylindrical roller bearing
03	03 series split cylindrical roller bearing
03E	03E series split cylindrical roller bearing
04	04 series split cylindrical roller bearing
1DT	Split tapered roller bearing

Part

B	Bearing

Size identification[1)]

For metric sizes, specify the bore diameter followed by "M":

35M	35 mm
to	
600M	600 mm

For inch sizes, specify the bore diameter as the whole number of inches followed by two digits representing the sixteenths of an inch:

103	1 3/16 in.
to	
2400	24 in.

Non-locating/Locating[2)]

EX	Non-locating bearing
GR	Locating bearing

Suffixes

AF	Axial expansion (float), preceded by the distance, e.g. 2AF for 2 mm axial expansion
AP	Air/grease purge points
AL(D)F	Aluminium cage with double flange (typically outer ring centred)
C2	Radial internal clearance smaller than Normal
C3	Radial internal clearance greater than Normal
C5	Radial internal clearance greater than C3
C	Special heat treatment for temperature stabilisation
CHAM	Special chamfer on the inner ring bore, followed by the size, e.g. CHAM 7 for 7 mm x 45°
EXILOG	Bearing with a locating outer ring and non-locating inner ring
FR	Full complement of rollers (no cage)
GM	Gunmetal/brass/bronze cage (when not standard)
GM(D)F	Gunmetal/brass/bronze cage with (double) flange (typically outer ring centred) (when not standard)
GROSL	Single lipped outer ring
OSO	Outer ring set out (particularly for large bearings where outer ring is usually retained in housing by radial screws)
XJR	Joint relief (to allow inner ring to be mounted in recess)

1) For split tapered roller bearings, only metric sizes 75 to 180 mm are applicable.
2) Split tapered roller bearings are only available as locating bearings. No suffix is required.

Designation system for cartridges for split cylindrical roller bearings

100	C	N	507	EX	TE
01	C		06	EX	

Bearing series

100	100 series split cylindrical roller bearing
01	01 or 01E series split cylindrical roller bearing
02	02 or 02E series split cylindrical roller bearing
03	03 series split cylindrical roller bearing
03E	03E series split cylindrical roller bearing

Part

C	Cartridge

Material

–	Grey cast iron
A	Aluminium
N	Ductile iron
S	Steel
SS	Stainless steel

Size identification

For cartridges with single groove seals or grease groove seals (whichever is standard according to the size) and metric sizes, specify the bearing bore diameter followed by "M":

40M	40 mm
to	
600M	600 mm

For cartridges with single groove seals or grease groove seals (whichever is standard according to the size) and inch sizes, specify the bearing bore diameter as the whole number of inches followed by two digits representing the sixteenths of an inch:

108	1 1/2 in.
to	
2400	24 in.

For cartridges with labyrinth seals, specify the number reference of the associated housing.

Non-locating/Locating

EX	Non-locating bearing
GR	Locating bearing

Suffixes

BOBP	Bolt-on end cover
BOBT	Bolt-on end cover with a thrust bearing
BP/BT/BPTL/BTTL	Refer to *Designation system for end covers*, **page 190**
IH	Inspection hole for measuring the position of the inner ring of the non-locating bearing once mounted
OB	Oversized bore: The cartridge end bore is larger than the bearing bore, followed by the end bore size, e.g. OB 65 M for 65 mm overbore.
OIL LUB	Oil lubricated
OTL	Oversized bore for triple labyrinth seal
SPM	Drilled for vibration sensor
TE	Drilled for temperature sensor

Designation system for cartridges for split tapered roller bearings

1DT	C	160	GR	150M
1DT	C	160	GR	65TL

Bearing series

1DT Split tapered roller bearing

Part

C Cartridge

Size identification: cartridge

Nominal cartridge size. Please refer to the product table, **page 104**.

Locating

GR Locating bearing

Size identification: end bore

For cartridges with grease groove seals, specify the bearing bore diameter followed by “M”:

75M 75 mm
to
180M 180 mm

For cartridges with labyrinth seals, this indicates the seal size for use with the cartridge, followed by “TL”.
Please refer to the product table, **page 104**.

Designation system for housings

	F	N	06	S1
100	H		415	DOUBLE BOSS

Prefix

100	100 series split cylindrical roller bearing (hanger housings, and matched cartridge and housing units only)
01	01 or 01E series split cylindrical roller bearing (hanger housings, and matched cartridge and housing units only)
02	02 or 02E series split cylindrical roller bearing (hanger housings, and matched cartridge and housing units only)

Housing type

CRES	Shoe type rod end housing including matched cartridge
CRET	"T" type rod end housing including matched cartridge
DF	Flanged housing with a square flange
F	Flanged housing with a round flange
H	Hanger housing
P	Plummer (pillow) block housing
PN	SD interchangeable plummer block housing
SAFC	SAF interchangeable plummer block housing
SAFQ	SAF interchangeable angled plummer block housing
SDC	SD interchangeable plummer block housing
SDQ	SD interchangeable angled plummer block housing
SNC	SN interchangeable plummer block housing
SNQ	SN interchangeable angled plummer block housing
TP	Push type take-up housing
TT	Tension type take-up housing

Material

–	Grey iron
A	Aluminium
N	Ductile iron
S	Cast steel or fabricated mild steel
SS	Stainless steel

Size identification

For plummer block, flanged, and take-up housing, specify the size from 01 to 95.

For SN, SD, and SAF interchangeable housings, specify the number reference of the housing it interchanges with, e.g. 3134 for an SD3134 housing, or 515 for an SN515 housing.

For hanger and rod end housings with metric sizes, specify the bore diameter followed by "M":

35M to **160M**	35 mm to 160 mm

For hanger and rod end housings with inch sizes, specify the bore diameter as the whole number of inches followed by two digits representing the sixteenths of an inch:

103 to **600**	1 3/16 in. to 6 in.

Suffixes

AP	Grease/air purge points for seals (hanger housings only)
BEM	Base ends machined, followed by machined length, e.g. BEM 500 mm
DOUBLE BOSS	Double boss (hanger housings only)
S1	Reduced swivel clearance between housing and cartridge
SLUB	Lubrication hole to spherical seat
TRIPLE BOSS	Triple boss (hanger housings only)

Designation system for end covers

BP	35M	
BP	103	
BT	140M	01
BT	115	02
BPTL	12	
BTTL	3	

Type of end cover

BP	End covers without thrust bearing, for cartridges with single seal grooves
BT	End covers with thrust bearing, for cartridges with single seal grooves
BPTL	End covers without thrust bearing, for cartridges with grooves for labyrinth seals
BTTL	End covers with thrust bearing, for cartridges with grooves for labyrinth seals

Size identification parameter

For end covers for cartridges with single groove seals specify any available bore size;
- bore diameter followed by "M" for metric sizes
- whole number of inches followed by two digits representing sixteenth of an inch for inch sizes

Examples

35M	35 mm
140M	140 mm
103	1 3/16 in.
115	1 15/16 in.
300	3 in.

For end covers for cartridges with labyrinth seals specify any available cartridge size designation.
End covers fit all cartridge variants with this size designation, e.g. BTTL3 could fit in either 01C3 or 02C3.

Examples

3	Cartridge size designation 3
12	Cartridge size designation 12

Bearing series reference

For end covers with thrust bearings, for cartridges with single groove seals.

01	01 or 01E series split cylindrical roller bearing
02	02 or 02E series split cylindrical roller bearing