

Suffixes

Suffixes are written following the bearing base designation. They give some information regarding details of bearing design, as far as it deviates from the defined standard.

Here are the most common NKE suffixes:

Suffix	Description
A, B, C, D, E,	Internal design: Changes or modifications to internal design are identified by suffixes. These suffixes are not standardised and will be used when necessary (e.g.: A, B, C, D, E,...)
A	Single row angular contact ball bearings: Contact angle 30°
	Bearings with grease filling: 10% - 15% of free space in bearing
A..	Special axial clearance
B	Single row angular contact ball bearings: Contact angle 40°
	Double row angular contact ball bearings: Changes or modifications of internal design without filling slots
	Bearings with grease filling: 15% - 25% of free space in bearing
	Cylindrical roller bearings: With special crowned raceways
	Insert bearings: Bearing with spherical outer ring
C	Single row contact ball bearings: Contact angle 15°
	Spherical roller bearings: Bearings of the design C and CE have symmetric spherical rollers and are fitted with a pressed steel cage as standard
	Bearings with grease filling: Customised grease fill mass (detailed grease filling must be specified by drawing or similar precisely)
CA	Single row angular contact ball bearings in universal design: Light axial clearance in pairs arranged in back to back or face to face
CB	Single row angular contact ball bearings in universal design: Medium axial clearance in pairs arranged in back to back or face to face
CC	Single row angular contact ball bearings in universal design:

	Large axial clearance in pairs arranged in back to back or face to face
C1	Smaller clearance than C2
C2	Smaller clearance than CN
CN (C0)	Clearance „normal“ – As this is the standard the suffix CN is not used in the bearing designation
CNL	Clearance controlled within the lower half of clearance group CN
CNM	Clearance controlled within the middle range of clearance group CN
CNH	Clearance controlled within the upper half of clearance group CN
C3	Clearance larger than CN
C4	Clearance larger than C3
C5	Clearance larger than C4
DB	Two single bearings matched for mounting in a back-to-back arrangement
DF	Two single bearings matched for mounting in a face-to-face arrangement
DT	Two single bearings matched for mounting in a tandem arrangement
E	Single row angular contact ball bearings: Contact angle 25°
	Cylindrical roller bearings: CRB's with a re-enforced internal design
F	Solid cage made from steel
FP	Solid cage made from steel, window-type cage
FX	Pin-type steel cages
GA	Single row angular contact ball bearings in universal design: None/slight preload in pairs arranged in back to back or face to face
GB	Single row angular contact ball bearings in universal design: Medium preload in pairs arranged in back to back or face to face
GC	Single row angular contact ball bearings in universal design: Heavy preload in pairs arranged in back to back or face to face
HT	High temperature grease
J	Pressed steel cages, rolling element guided
K	Tapered bore, taper 1:12
K30	Tapered bore, taper 1:30
LFS	Deep groove ball bearings:

	Low friction seal, on one side
2LFS	Deep groove ball bearings: Low friction seal, on both sides
LHT	Low and high temperature grease
LP	Light metal alloy cage, window-type
LS	Cylindrical roller bearings: Contacting seal, on one side
2LS	Cylindrical roller bearings: Contacting seal, on both side
LT	Low temperature grease
M	Solid brass cage, two-piece cage, roller guided, steel rivets
	Bearings with grease filling: 45% - 60% of free space in bearing
M2	Solid brass cage, roller guided (rivetted, round rivet pins)
M6	Solid brass cage, roller guided (rivetted, trapezoidal rivet pins)
MAS	Outer ring land riding solid brass cage with lubricating slots in the guiding surfaces
MB	Solid brass cage, inner ring guided
MP	Solid brass cage, window-type cage, roller guided, one-piece
MPA	Solid brass cage, window-type cage, outer ring guided
MPB	Solid brass cage, window-type cage, inner ring guided
MT	Medium temperature grease
N	Bearing with a snap ring groove in the outer ring
	Insert bearings: Groove for end cap in cast iron housing
N2	Bearing having two locating grooves on one side of outer ring or housing washer
NR	Bearing with a snap ring groove in the outer ring and fitted with a snap ring
P2	Tolerances closer than P4
P4	Tolerances closer than P5
P5	Tolerances closer than P6

P6	Bearings having closer tolerances than standard tolerance class
P63	Tolerance P6 + clearance C3
PN (P0)	Bearings in standard tolerance (as this is the standard the suffix PN is not used in the bearing destination)
P	Insert bearings: P-type seal
R	Single row cam rollers: with crowned outer diameter
	Insert bearings: R-type seal
R..	Special radial clearance
RS	Deep groove ball bearings: Contacting seal, on one side
2RS	Deep groove ball bearings: Radial contacting seal, on both sides
RS2	Deep groove ball bearings: Radial contacting seal, on one side, design variation 2
2RS2	Deep groove ball bearings: Radial contacting seal, on both sides, design variation 2
RSR	Deep groove ball bearings: Radial contacting seal, on one side
2RSR	Deep groove ball bearings: Radial contacting seal, on both sides
SN	Standard heat treatment, stabilised up to +120°C (248°F)
S0	Bearing rings or washers are stabilised up to +150°C (302°F)
S0A	Outer ring or housing washer is stabilised up to +150°C (302°F)
S0B	Inner ring or shaft washer is stabilised up to +150°C (302°F)
S1	Bearing rings or washers are stabilised up to +200°C (392°F)
S2	Bearing rings or washers are stabilised up to +250°C (482°F)
S3	Bearing rings or washers are stabilised up to +300°C (572°F)
S4	Bearing rings or washers are stabilised up to +350°C (662°F)
SQ1	Rolling element bearings used in railway traction motors
SQ2	Rolling element bearings used in railway axle boxes
SQ34	Spherical roller bearings for vibrating applications (shaker screens etc.)

SQ77	Electrically insulated bearings
TPA	Phenolic resin cage, window-type, outer ring guided
TV	Solid cage made of polyamide PA66-GF25, rolling element guided
TVH	Solid cage made of polyamide PA66-GF25, snap-type cage, rolling element guided
TVP3	Solid cage made of polyamide PA66-GF25, window-type cage, roller guided
V	Full complement ball or roller bearing
VH	Full complement cylindrical roller bearing with self retaining roller set
W33	Circumferential lubricating groove and holes in the outer ring
X	<i>Bearings with grease filling:</i> 70% - 90% of free space in bearing (bearing is fully filled with grease)
	<i>Tapered roller bearings:</i> Main dimensions of bearings adapted to the international standard ISO
Y	<i>Deep groove ball bearings:</i> Pressed brass cage, ball guided
Z	<i>Deep groove ball bearings:</i> Shield, on one side
2Z	<i>Deep groove ball bearings:</i> Shield, on both side
Z-N	Bearing having a shield on one face side and a snap ring groove in the outer diameter on the opposite face
-----	25% - 50% of free space in bearing (standard grease filling mass is not marked with suffix)

Excerpt from KV 805 – version 25.07.2019

NKE AUSTRIA GmbH
Im Stadtgut C4
4407 Steyr
Austria

Tel: +43 7252 86667
Fax: +43 7252 86667-59
office@nke.at
www.nke.at