

FAG

NN3011-D-K-TVP-SP-XL

Cylindrical roller bearing

Super precision cylindrical roller bearings
 NN30..-D-K-TVP-SP, Non-locating bearing,
 double row, with tapered bore, taper 1:12,
 separable, with cage

X-life

Technical information

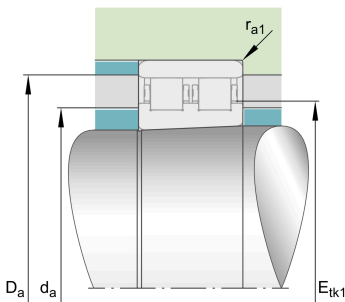


Your current product variant

Cage	TVP	Plastic cage
Tolerance class	SP	Tolerance class SP
Bore type	K	Tapered, taper 1:12
Change mark	D	Internal Variant D
Radial internal clearance	C1 (Group 1)	Internal clearance smaller than C2
Number of rows	2	Double-row design

Main Dimensions & Performance Data

d	55 mm	Bore diameter
D	90 mm	Outside diameter
B	26 mm	Width
C_r	82.000 N	Basic dynamic load rating, radial
C_{0r}	97.000 N	Basic static load rating, radial
C_{ur}	15.800 N	Fatigue load limit, radial
$n_{G \text{ Grease}}$	11.900 1/min	Limiting speed for grease lubrication
$n_{G \text{ Oil}}$	14.100 1/min	Limiting speed for oil lubrication
m	0,571 kg	Weight





Mounting dimensions

d_a	65 mm	Diameter shaft shoulder
	h_{12}	Diameter shaft shoulder tolerance
D_a	82,9 mm	Diameter of housing shoulder
	H_{12}	Shoulder diameter outer ring clearance
$E_{tk1\text{ nom}}$	79,3 mm	Injection pitch diameter min
$r_{a1\text{ max}}$	1 mm	Maximum recess radius





Dimensions

$r_{1\text{ min}}$	1,1 mm	Minimum chamfer dimension
E	81 mm	Raceway diameter outer ring
s	1,9 mm	Axial displacement

Temperature range

T_{min}	-30 °C	Operating temperature min.
T_{max}	120 °C	Operating temperature max.

Characteristics

	Radial load
	Grease Lubrication
	Oil Lubrication
	Not sealed