



PNA 25/47

Alignment needle roller bearings, with an inner ring

Bearing data

[Tolerances,](#)

Normal,

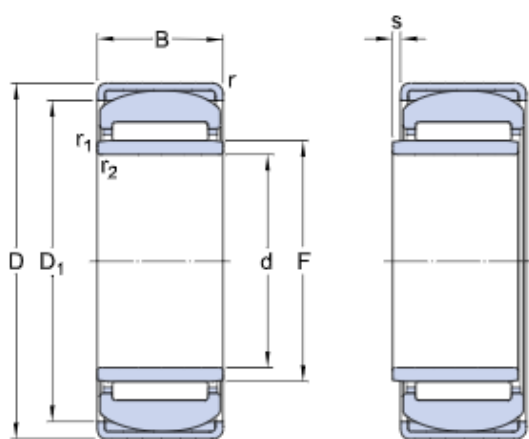
[Radial internal clearance,](#)

table

Design considerations

[Shaft and housing tolerances,](#)
table

Technical specification

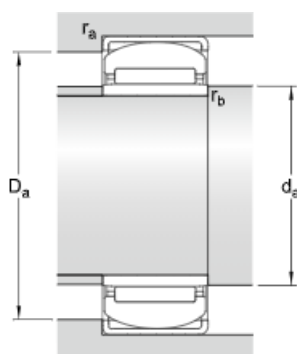


DIMENSIONS

d	25 mm
D	47 mm
B	20 mm
F	30 mm
D ₁	42 mm
r	min. 0.8 mm
r _{1,2}	min. 0.3 mm
s	max. 0.5 mm

ABUTMENT DIMENSIONS

d _a	min. 25 mm
D _a	min. 41 mm
D _a	max. 42 mm
r _a	max. 0.8 mm
r _b	max. 0.3 mm



CALCULATION DATA

Basic dynamic load rating	C	22.9 kN
Basic static load rating	C ₀	38 kN
Fatigue load limit	P _u	4.8 kN
Reference speed		13 000 r/min
Limiting speed		15 000 r/min

MASS

Mass bearing	0.16 kg
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Designation	PNA 25/47
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More information

Product details	Engineering information	Tools
Designs and variants	Principles of rolling bearing selection	SimPro Quick
Bearing data	General bearing knowledge	Bearing Select
Loads	Bearing selection process	Engineering Calculator
Temperature limits	Bearing failure and how to prevent it	LubeSelect for SKF greases
Permissible speed		Heater Selection Tool
Design considerations		skf.com/mount
Mounting		
Designation system		

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