

SKF 51103

Single direction thrust ball bearing

Single direction thrust ball bearings can accommodate axial loads in one direction. They must not be subjected to any radial load. Their separable components facilitate mounting/dismounting and maintenance inspections. Many of the components are interchangeable. The shaft washers have a ground bore that enables an interference fit.



Technical specifications

Dimensions	
Bore diameter	17 mm
Outside diameter	30 mm
Height	9 mm
Outside diameter shaft washer	30 mm
Inner diameter housing washer	18 mm
Chamfer dimension washer	0.3 mm

Abutment dimensions	
Abutment diameter shaft	25 mm
Abutment diameter housing	22 mm
Fillet radius	0.3 mm

Calculation data	
Basic dynamic load rating	11.4 kN
Basic static load rating	21.2 kN
Fatigue load limit	0.78 kN
Reference speed	8500 r/min
Limiting speed	12000 r/min
Minimum load factor	0.002

Performance	
Basic dynamic load rating	11.4 kN
Basic static load rating	21.2 kN
Reference speed	8500 r/min
Limiting speed	12000 r/min

Properties	
Axial load capability	Single-direction
Number of rows	1
Cage	Sheet metal
Housing washer type	Flat
Tolerance class	Normal
Material, bearing	Bearing steel
Coating	Without
Indicative carbon footprint for new product	0.09 kg CO ₂

Logistics	
Product net weight	0.0259 kg
eClass code	23-05-10-01
UNSPSC code	31171507

SKF drawings