

53306



Single direction thrust ball bearing with sphered housing washer

Single direction thrust ball bearings, with sphered housing washer, can accommodate axial loads in one direction. They must not be subjected to any radial load. Many of the components are interchangeable. The shaft washers have a ground bore that enables an interference fit. The sphered housing washers can accommodate initial misalignment when configured correctly with a sphered seat washer or a machine component with a sphered surface.

- Separable design facilitates mounting/dismounting and maintenance inspections
- Interchangeable components
- Ground bore of shaft washers enables interference fit
- Sphered housing washers can accommodate initial misalignment

Overview

Dimensions

Bore diameter	30 mm
Outside diameter	60 mm
Radius of aligning surface	50 mm
Thickness	22.6 mm

Performance

Basic dynamic load rating	35.8 kN
Basic static load rating	65.5 kN
Limiting speed	5 300 r/min
Reference speed	3 800 r/min

Properties

Axial load capability	Single-direction
Cage	Sheet metal
Coating	Without
Housing washer type	Sphered
Material, bearing	Bearing steel
Number of rows	1
Tolerance class	Normal

Technical Specification



Dimensions

d	30 mm	Bore diameter
D	60 mm	Outside diameter
H	22.6 mm	Height
H ₁	25 mm	Height bearing including seat washer
d ₁	≈ 60 mm	Outside diameter shaft washer
D ₁	≈ 32 mm	Inner diameter housing washer
D ₂	45 mm	Inner diameter sphered seat washer
D ₃	62 mm	Outside diameter sphered housing washer
C	7 mm	Height sphered housing washer
R	50 mm	Radius sphered housing washer
s	22 mm	Centre height housing washer sphere
r _{1,2}	min. 1 mm	Chamfer dimension washer

Abutment dimensions

d _a	min. 48 mm	Abutment diameter shaft
D _a	max. 45 mm	Abutment diameter housing
r _a	max. 1 mm	Fillet radius



Calculation data

Basic dynamic load rating	C	35.8 kN
Basic static load rating	C_0	65.5 kN
Fatigue load limit	P_u	2.4 kN
Reference speed		3 800 r/min
Limiting speed		5 300 r/min
Minimum load factor	A	0.026

Mass

Mass bearing (including seat washer where applicable)	0.33 kg
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Associated products

Seat washer	U 306
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