

53314

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



Dimensions		
d	70 mm	Bore diameter
D	125 mm	Outside diameter
H	44.2 mm	Height
H ₁	48 mm	Height bearing including seat washer
d ₁	≈ 125 mm	Outside diameter shaft washer
D ₁	≈ 72 mm	Inner diameter housing washer
D ₂	98 mm	Inner diameter seat washer
D ₃	130 mm	Outside diameter seat washer
C	13 mm	Height seat washer
R	100 mm	Radius sphered housing washer
s	43 mm	Centre height housing washer sphere
r _{1,2}	min. 1.1 mm	Chamfer dimension washer



Abutment dimensions

d_a	min. 103 mm	Abutment diameter shaft
D_a	max. 98 mm	Abutment diameter housing
r_a	max. 1 mm	Fillet radius

Calculation data

Basic dynamic load rating	C	135 kN
Basic static load rating	C_0	320 kN
Fatigue load limit	P_u	11.8 kN
Reference speed		1 800 r/min
Limiting speed		2 600 r/min
Minimum load factor	A	0.53

Associated products

Seat washer	U 314
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Tolerances and clearances

GENERAL BEARING SPECIFICATIONS

- Tolerances: table 1

BEARING INTERFACES

- Seat tolerances for standard conditions
- Tolerances and resultant fit